

HITCHCOCK
E. 100 2050

Canada 1923
Hitchcock Typed copy
nos 19914-22050
ident. entered for many

PLANTS COLLECTED IN ECUADOR DURING 1923 BY A. S. HITCHCOCK.

Guayaquil June 18, 1923

19914 *Panicum*

Tidal marsh along Rio Guyas, water front of city. Stems
creeping at base; has much the aspect of next.

19915 *Eriochloa*

same locality

19916 *Panicum*

same locality

19917 *Chloris*

June 19

low moist ground

19918 Low moist ground near river. Gregarious, 4-6 ft. tall,
erect or decumbent at base; fls. pink. *Ipomoea crassicaulis* (Benth.) Robins.

19919 Low ground. Weed in pasture, 2 ft. tall, much branched;
fls. pink. *Parsonia* (Cuphea) *carthagenensis* (Jacq.) Macbr.

19920 Same loc. 2 ft. tall. *Acanth.*

19921 " " 4-6 ft, wand-like branches; fls. yellow. *Malachra alceifolia* Jacq.

19922 " " 3 ft. tall; fls. yellow-orange.

19923 " " 3-6 ft; fls. white. *Hyptis pectinata*

19924 " " 1-2 ft.; fls. lilac; annual. *Heliotropium indicum* L.

19925 " " 2-4 ft. fls. white; rootstocks produced.
Hyptis Florida Benth.

- 19926 Swampy soil near river. Gregarious, with bulbs and rhizomes;
2-3 ft. tall; fls. white. *Crinum Cartwrightianum* Rose.
- 19927 On rocky cliff. Shrubby, 6-10 ft.; fls. white. *Pigneria densiflora* Benth.
- 19928 " " " Large shrub; fls. yellow; leaves simple or
with 1 or 2 leaflets at base. *Tecoma Gandichandii* DC.
- 19929 Rocky hillside. Shrub 8-12 ft.; fls. pale yellow, viscid. *Pseudabutilon hutchinsii* Walbrich (type) ~~Abutilon~~
- 19930 Same. Stout vine climbing over bushes, masses of bright
pink fls. *Ipomoea abutiloides* (HBK.) Don.
- 19931 Same. 3 ft. tall. *Brickellia diffusa* (Vahl) Gray
- 19932 Same. 4-6 ft.; fls. white. *Heliotropium rufipilum anadenum* Johnston
- 19933 Same. Climbing vine, 20-30 ft. fls. white. *Plumbago scandens* L.
- 19934 Open ground. Weed, 3 ft., fls. white. *Melochia lapulina* Sw.
19935. Same. Weed, 3-4 ft. fls. orange-yellow. *Malvastrum*
19936. Climbing on shrubs, fls. purple-blue. *Ipomoea purpurea* (L.) Lam.
19937. Climbing on shrubs; fls. (bracts etc.) white.
19938. Rocky hillside. Tree 20-30 ft.; fls. lemon-yellow. *Cordia rotundifolia* R. & P.

Hills across Rio Guayas, west of Guayaquil June 20

- 19939 Open cut-over ground. Annual, pods like crucifer. *Corchorus pilobolus* Link
- 19940 Hillside among shrubs. Straggling half-shrub, 6 ft. *Spilanthes ocymifolius* (Lam.) A.H. Moore
- 19941 Shrubby hillside. Shrub 5 ft. fls white. *Mimosa floribunda* Willd.
- 19942 Cut-over ground. 3 ft., sticky. *Aeschynomene americana* L.

	19943	Cut-over ground.	Bouteloua.	Annual decumbent spreading.
W /	19944	Same		Vine on shrubs, small blue fls.
	19945	"		" <i>Dolicholus minimus</i> (L.) Medic. fls. yellow.
W /	19946	"		<i>Mesedula divergens</i> (Benth.) Hitchc. 5-pointed capsule.
	19947	"	Panicum	
	19948	"	Paspalum <i>Platymis cinnamomifera</i> Mart. (det. Hochm.)	straggling, much branched, roughened. Perennial bunches
	19949	"		
	19950	"		<i>Momordica Charantia</i> L. vine; fls. pale yellow, falling quickly; fruit orange.
	19951	"		<i>Abutilon reflexum</i> (Cav.) Sweet 2 ft. fls. orange and red.
	19952	Shrubby hillside.		<i>Gossypium peruvianum</i> Cav? 8-12 ft. tall; fls. pale yellow, fading to pink.
	19953	Same	Pennisetum	<i>Pennisetum occidentale</i> Chase large bunches, up to 8 ft. tall; straggling-creeping at base.
	19954	"		<i>Buettneria parvifolia</i> Benth. shrub with <i>Cephalanthus</i> -like fruit; 6-10 ft. prickly.
	19955	Cut-over land.	Paspalum	2-4 ft. straggling, much branched.
	19956	" " "		Straggling half-shrub; fls. <i>Indigofera subulata</i> Vahl pinkish.
	19957	" " "		<i>Asclepiad</i> Vine, fls. yellow.
	19958	" " "		<i>Quamoclit coccinea</i> (L.) Moench scarlet.
	19959	" " "		<i>Phaseolus peduncularis</i> H.B.K. dull purple or white.
	19960	" " "		<i>Triumfetta semitriloba</i> L. shrubby 6-8 ft; fls. yellow.
	19961	" " "		4 ft. <i>Acanth</i>
	19962	Among shrubs	Olyra	

- 19963 Among shrubs Lasiacis long simple branches, 8-10 ft.
- 19964 Cut-over land fls. lilac. Ruellia
- 19965 Low ground near water. Pithecolobium candidum Benth.
Tree 30 ft.; fls. white.
- 19966 " " " " Carduaceae. *Senecio cf. jussieu* Klatt
Shrub, straggling, 10 ft. (Det. E. P. Killip)
- 19967 " " " " Eupatorium iresinoides HBK.
Scrambling shrub, several feet;
fls. white.
- 19968 " " " " Browallia pallida Morton (type)
Annual; fls. lilac-blue.
- 19969 Among shrubs Panicum much branched, straggling, 5-6
ft.
- 19970 " " " " Iresine diffusa Willd. (?)
Straggling herb, 6-10 ft.
- 19971 " " " " Gomphrena perennis L.
" " several ft.;
- fls. white.
- 19972 " " " " Jacquemontia nodiflora (Desv.) G. Don
Vine, fls. white.
- Shear 19973 " " " " Fungus, on Convolvulus.
- 19974 River bank Solanum nigrum L.
Weed, fls. white, fruit black.
- 19975 Along road " Acanth
- 19976 Open ground Isocarpha divaricata Benth.
2 ft. much branched.
- 19977 " " " along road. Sporobolus
- 19978 Bank of river Phylloxerus vermiculatus (L.) R. Br.
- 19979 " " " " Jacquemontia corymbulosa Benth.
Vine, fls. blue.

Province Guayas. Oil camp at Belen, port at end of launch
journey, between Guayaquil and Salinas. June 21

- 19980 Low ground, very wet in wet season. Cyperus oxylepis Nees
- 19981 " " " " Tree, 20 ft. Mimosa acanthiloba Poir.
- 19982 " " " " Herb Spermacoce glabra Michx.

- 19983 Low ground, very wet in wet season *Melochia pyramidata* L.
- 19984 " " " " " " (Discarded)
- 19985 " " " " " " *Jussiaea erecta* L.
4-6 ft., fls. yellow.
- 19986 " " " " " " *Leucaena canescens* Benth.
Tree, 20 ft. fls. white.
- 19987 " " " " " " (Discarded)
- 19988 " " " " " " *Wissadula divergens* (Benth.) Hitchc.
Half shrub, 3 ft., fls.
- 19989 " " *Coccoloba Ruiziana* Lindau orange.
Tree 10-15 ft.
- 19990 " " " " " " *Chloris* common
- 19991 " " " " " " *Maytenus uliginosus* HBK
Tree, 10-15 ft; fls. green.
- 19992 " " *Hydrobia elatior* " " *Solanaceae*
- W-1 19993 " " " " " " *Erythraea ginterensis* HBK.
- 19994 (Discarded)
- 19995 " " " " " " Clambering vine, fls. green.
- 19996 Tidal flat *Salicornia peruviana* and *Batis maritima*
Salicornia fruticosa L. Shrub up to 6 ft.
- 97 " " " " *Acanth* fls. pink-purple.
- 98 " " " " *Ruellia*
- 99 " " " " *Acanth*
- 20000 " " " " *Sporobolus*
- 01 " " " " *Carduaceae*
- 02 " " " " *Solanaceae*
- 03 " " " " *Ammannia auriculata* Willd.
- 04 " " " " *Psittacanthus obovatus* Benth Tree, 16 ft. fls. scarlet.
- 05 " " " " *Commelina diffusa* Burm.f. fls. blue Det. L. B. Smith

Province Guayas, Oil Camp between Guayaquil and Salinas;
collections made along grade of new Ry, Los Quemados. June 22

20006	Rolling scrub land	Dactyloctenium	
20007	" " "	<i>Cucumis dipsosacus</i> Ehrenb. Cucurbit	Vine, fls. yellow.
8	" " "	Bignoniaceae	" " orange red.
9	" " "	Boerhaavia caribaea Jacq.	Fls. purple, viscid.
10	" " "	<i>Sicyos longisetus</i> Cogn. Cucurbit	cluster of bristly fruits.
11	" " "	<i>Cucurbita</i> ^{cf. maxima}	Vine; fls. yellow; fruit globose, 6 in diam. looks like water-melon.
20012	" " "	<i>Cucumis angura</i> L. (Det. Harms)	Vine, fls. yellow; fruit tuberculate.
13	" " "	Muntingia calabura L.	Tree, 30 ft, fls. white.
14	" " "	Clerodendron molle HBK	" 15 ft. fls. white
15	" " "	Eragrostis	
16	" " "	Lantana ^{HBK.} rugulosa	Shrub 4 ft. fls. white & yellow.
17	" " "	Passiflora hispida DC.	Vine; fls. greenish white and lilac.
18	" " "	Caesalpinaceae	Tree 10 ft. fls. white.
19	" " "	Eupatorium Roseorum Robins.	Halfshrub, 6 ft. fls. lilac.
20	" " "	(Malvaceae) <i>Hibiscus sylvaticus</i> Benth.	Shrubby, 5 ft. fls rose.
21	" " "	Canavalia leptophylla Piper (?)	Vine, fls. lilac-pink, fruit large.
22	" " "	<i>Cattleya violacea</i>	3 ft. Nocca mollis Cav. (H.B.K.) Rehb f (Det. Hillebrand)

20023	Rolling scrub land			Cassia picta Don Shrub, 5 ft. fls. yellow.
24	"	"	"	Adesmia " 6 ft. fls. yellow.
25	"	"	"	Ipomoea purpurea (L.) Lam. Vine fls. blue.
26	"	"	"	Ipomoea egyptia L. " white.
27	"	"	"	Ipomoea dumetorum (HBK) Willd. " " rose-purple.
28	"	"	"	Malachra fasciata Jacq.
29	"	"	"	Wedelia grandiflora Benth. 6-8 ft. fls. yellow.
30	"	"	"	Phaseolus longipedunculata Mart. vine, fls. dark purple-magenta.
31	"	"	"	Phaseolus " " rose.
32	"	"	"	Anthephora
33	"	"	"	Ipomoea Nil (L.) Roth " " "
34	"	"	"	Rust on 20035
35	"	"	"	Vine Ipomoea
36	"	"	"	Rust on 20037
37	"	"	"	Vine Ipomoea setosa Ker
38	"	"	"	<i>Cyclanthera</i> off <i>C. tenuisepala</i> (Cogn.) Vine Luffa Det. E. F. Killip
39	"	"	"	Hyptis costata (Benth.) Epling
40	"	"	"	Phaseolus " fls. rose and white.
41	"	land		Mimosa floribunda <i>glabrescens</i> Shrub, 8 ft. fls. rose.
42	"	"	"	Buettneria parvifolia Benth. 19950
43	"	"	"	Malvastrum scabrum (Cav.) Gray fls. yellow.
44	"	"	"	Melochia lupulina Sw. aspect of 20043, but fls. white.

Shear

Shear

- 20045 Rolling land *Luffa cylindrica* (L.) Roem. Vine, fls. yellow.
- 46 " " *Sida rhombifolia* L.
- 47 " " *Mimosa* ~~*Camponum*~~ *Camponum* Shrub, 4 ft. fls. pink. Det. E. P. Killip
- 48 " " *Hyptis spicigera* Lam. 6 ft.
- 49 Swamp *Justicia comata* (L.) Lam.
- 50 " *Oryza latifolia* Desv.
- 51 " ~~Marantaceae~~ *Thalia pavanii* Koern. Det. L. B. Shaw
- 52 Rolling scrub-land *Celosia virgata* Jacq.
- 53 " " " *Mentzelia aspera* L. Straggling shrub or half shrub, very fragile; fls. yellow.
- 54 " " " ~~*Galactia*~~ *Teramnus uncinatus* (L.) Sw. Vine, fruit only.
- 55 " " " *Acanth* fls. scarlet.
- 56 *Chloris*
- 57 *Lasiacis* Always find this a single long culm, 4-8 ft., sparingly branched toward summit; panicle narrow.
- 58 " " " *Lantana camara* L. Scrub, 6 ft., fls. red & orange.
- 59 " " " *Cordia alliodora* (R. & P.) Cham. Tree, 30 ft. fls. white.
- 60 " " " *Physalodes physalodes* (L.) Britt. Herb, 3-6 ft.; fruit
- 61 " " " Gall or fungus on tree with yellow flowers 19928

- 20062 Rolling scrub-land *Croton salviaefolius* HBK Tree, 10 ft. fls. white.
- 63 " " " Labiatae fls. pale blue.
- 64 " " " Chloris
- 65 " " " Syntherisma
- 66 " " " Meibomia purpurea (Mill.) Vail
- 67 " " " fls. white. *Wissadula* ~~*amplissima*~~ *divergens* (Pursh) Hitchc.
- 68 " " " vine. *Ipomoea purpurea* (L.) Lam. Det. E.C. Leonard
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Province Guayas, Oil camp between Guayaquil and Salinas; in vicinity of Road Camp, 15 km. S.E. of main camp. June 23.

- 20069 Open dry woods. Vine on tall tree (cut tree down), fls. *Haemadictyon pallidum* DC. yellow with yellow-green eye.
- 70 " " " Tall tree, cut tree down, but flowers *Cochlospermum hibiscoides* (Willd.) Kunth broken in falling, bright yellow (slightly orange); no leaves on tree.
- 71 Border of swamp *Cyperus hermaphroditus* (Jacq.) Standl.
- 72 " " " *Luffa operculata* (L.) Cogn. Vine, fls. yellow.
- 73 " " " *Aeschynomene sensitiva* Sw. fls. yellowish white.
- 74 In water o swamp *Hymenachne* form large area in swamp.
- 75 Border of swamp *Cuscuta* on 20079 *C. americana spectabilis*
- 76 On water of swamp *Lemna*
- 77 In " " " and in mud along edge. *Utricularia foliosa* L. Fls. yellow.
- 78 Shade of woods near swamp *Alternanthera areschougii* Fries *Amaranthaceae*
- 79 " " " border of swamp *Achyranthes aspera* L.
- 80 " " " " " *Oplismenus*

- 20081 Border of swamp. Large shrub or small tree, 10-15 ft. fls.
Clerodendrum molle HBK.
 white.
- 82 " " " Herb *Borreria Andersonii* Standl.
- 83 " " " *Echinochloa*
- 84 Swamp; in water and in mud along edge. *Sagittaria*, up to
Echinodorus bracteatus icheli
 8 ft; blades up to 18 in.; fls. white; fruit
 from 20987 (19987 discarded).
- 85 Low woods *Cassia biflora* L. Small tree, 15 ft. fls. yellow.
- 86 Near swamp on shrub *Cuscuta americana congesta*
- 87 Mud, edge of marsh *Eleocharis minima* Kunth det. *Evrenum*
- 88 Border of marsh *Rotala ramosior* (L.) Koehne 19984 discarded)
- 89 Water of marsh *Thalia geniculata* L. 6-8 ft., fls. purple.
- 90 " " " *Eleocharis geniculata* (L.) R. & S.
- 91 shallow water of marsh *Eleocharis atropurpurea* (Retz) Kunth
- 92 Sandy bank *Eragrostis*
- 93 Border of marsh *Cordia guayaquilensis* A. DC.
 shrub 4-8 ft. fls. white
- 94 " " " *Cardiospermum grandiflorum* Sw.
 Climbing on shrubs; fls. white
- 95 water of marsh *Castalia ampla* Salisb.
 Pulls up easily; blades float-
 ing; fls. all closed (3
 p.m.) Above surface, but
 afterwards retreat below
 surface.

- 20096 Swimming just beneath surface of water of swamp. *Lemna*
- 97 Floating on water of marsh. *Salvinia*
- 98 Marsh (a mixture of 20096 and 20076?) *Riccia*
- 99 Floating on water of marsh, in flower; ^{*Pistia stratiotes* L.} spathes greenish-white. *Jacquinia sprucei* Mez.
- 20100 Woods Large tree up to 50 ft; fls. orange-red. *Jacquinia*
- 101 " Vine climbing on shrubs; fls. red & orange red. ^{*Tropaeolum M. ritzianum* Kl.}
- 102 " " fls. greenish white with bluish tinge. ^{*Vigna vexillata* (L.) Rich.} ~~*Fabaceae*~~
- 103 " Single stem, 4 ft. branched at summit, with cluster ^{*Jatropha*} of leaves and bright rose inflorescence (branches and flowers).
- W-1 104 " Shrub.
- W-1 105 " Vine, woody.
- 106 Sandy bank of stream. ^{*Alternanthera halimifolia* (Lam.)} Spreading-decumbent
- W-1 107 " " " " *Leptochloa*
- W-1 108 " " " " *Lippia canescens* HBK.
- 109 Woods ^{*Macroscepis aequatorialis* Woods.} Vine, herbaceous, fls. brown.
- to Shear 110 " fungus on 2011¹.
- 111 " *Lippia* ^{*hemisphaerica* Jacq.} shrub 6-10 ft. fls. white.
- to Shear 112 " fungus on mallow.
- 113 " *Hibiscus brasiliensis* L. 3-4 ft. fls. red.
- 114 " (Malvaceae) *Hibiscus hitchcockii* Ulbrich (type) Shrub 4-6 ft. fls. rose.
- 115 Swamp *Neptunia* ^{*prostrata* (Lam.) Baill.} Stems very spongy, floating on surface of water; fls. yellow.

Province Guayas, Oil camp between Guayaquil & Salinas; rail-
way grade to west. June 24.

- 20116 woods *Sida rhombifolia* L.
- 117 " fls. rose-scarlet. Acanth
- 118 " *angustifolia* Euph. *Iresine diffusa* Willd. (?) Herb 6 ft.
- 119 " *pimpinellifolium* (Det. Muller) *Lycopersicon cerasiforme* Dunal straggling herb, fls. yellow,
fruit globose, 1 cm. diam.
scarlet.
- 120 " *Parosela BARBATA* Half-shrub, 5 ft. fls. pale
blue.
- W-1 121 " *Serjania brevipes* Benth. Woody vine, fls. white.
- 22 " *Dolicholus minimus* (L.) Medic. herbaceous vine.
- 23 " *Dalechampia scandens* L. " " 3-celled
capsule in involucre.
- 24 Straggling out of a pile of railway ties. *Chaetochloa*

Guayaquil, road west across Rio Guayas. June 26.

- W-1 20125 *Lasiacis* pubescent and glabrous sheaths
on same plant.
- 126 *Senecio cf. jussieu* Klatt. Carduaceae Det. E. P. Killip
Among brush along river, straggling herb, 6-8 ft.
- 127 *Eupatorium odoratum* L. shrub, 6-10 ft. fls. white.
- 128 *Guazuma ulmifolia* Lam. small tree, 20 ft. fruit glo-
bose to ovoid, like a young
orange.
- W-1 129 *Lasiacis*
- 130 (Discarded)
- 131 *Abutilon cordatum* Garcke & Schum. 6 ft; fls. pale yellow with
small purple eye.

- W-1 20132 Paspalum young plant showing annual root.
- 133 Lasiacis spikelets small otherwise looks like sorghoidea.
- 134 Paspalum 19955
- 135 . fungus on Lasiacis ruscifolia.
- W-1 136 Lasiacis more or less pubescent.
- 137 Anneslia shrub 10 ft.
- 138 near river Pithecolobium candidum Benth. Tree 25 feet.
- 139 Eupatorium iresinoides HBK. Shrub or half shrub 6 ft. fls. white.
- 140 Serjania mucronulata Radlk. woody vine.
- 141 Cuscuta prismatica Cav. calyx and pedicels dark purple, corolla white.
- 142 Eupatorium Roseorum Robins. half shrub, 6-8 ft, fls. white.
- 143 *Piptadenia flavo (Sprang.) Bth.*
~~Leucaena~~ Det. E. P. Killip Tree 30 ft.
- 144 Malpigh Small tree, 20 ft.
- 145 Dalechampia scandens L. Vine
- 146 Dolicholus precatorius (Humbl.) Rose Woody or half woody vine.
- 147 along river, shade of small trees Opismenus
- 148 Serjania ampelopsis Fl. & Lind. Woody vine; fls. white tinged with orange.
- 149 Passiflora reflexiflora Cav. Vine, fls. crimson.

20150 Chamaesyce lasiocarpa (Kl.) Arthur

151 Schizoptera pedunculata (Benth.) Blake fls. yellow.

152 Ipomoea vine, fls. rose-lilac.

153 Triumfetta semitriloba L. 5 ft., fls. yellow.

W-1 154 small tree, 20 ft.

155 Opercuina codonantha (Benth.) House vine

156 Melanthera aspera (Jacq.) Steud. fls. white

W-1 157 Straight small trunk, 4 ft,
no leaves, cluster of
flowers at top; inflores-
cence red.

W-1 158 Lasiacis

159 Verbesina minuticeps Blake Tall herb, up to 15 ft.

Province Guayas, Milagro June 30

20160 Open ground along railway Scroph

W-1 161 " " " " Paspalum common in lawns and
Phyla nodiflora var. *reptans* (L.) Moldenke
grounds.

162 " " " " Spilanthes ocymifolia (Lam.) AH Moore

W-1 163 " " " " Leptochloa
Alternanthera sessilis (L.) Standl.
prostrate, rooting.

164 " " " " Lippia reptans HBK - *betulaefolia* HBK

165 " " " " Physalis angulata L. fls. yellow.

166 " " " " Phyllanthus carolinensis Walt.

167 " " " " Eragrostis

168 " " " " Eragrostis

	20169	Open ground along railway	<i>Ilysanthes inaequalis</i> (Walt.)	
	170	" " " "	<i>Heliotropium procumbens</i> Mill.	fls: white.
W-1	171	" " " "	<i>Eleusine</i>	
W-1	172	" " " "	<i>Leptochloa</i>	
	173	" " " "	<i>Fimbristylis meliacea</i> (L.) Vahl	
W-1	174	Lawn about house	<i>Axonopus</i>	
W-1	175	Garden in shade	<i>Oplismenus</i>	
	176	" " "	<i>Eragrostis</i>	
	177	Weed in garden	<i>Paspalum</i>	
W-1	178	" " "	<i>Chloris</i>	
	179	" " "	<i>Eragrostis</i>	
	180	" " "	<i>Paspalum</i>	

Province Guayas, near Milagro, along Ry. west of Ingenio
Valdez, mostly weeds.

20181	<i>Pavonia sepium</i> St.Hil.	Half shrub 8 ft. fls. orange-yellow.
182	<i>Lantana trifolia</i> L.	" shrub, 4-6 ft. fls. lilac; fruit glo- bose, fleshy, lilac purple.
183	<i>Hemistylis boehmerioides</i> Benth.	" shrub; 6-10 ft; fls. greenish white.
184	<i>Mikania micrantha cynanchifolia</i> (HBK)Robins.	Vine herbaceous; fls. white.

- 20185 Moist place. Canna 5-8 ft, fls. pale yellow
with orange-red apex,
and orange red leaf
below; leaves at regular
intervals along stem.
- 20186 Piper tuberculatum ambitiosum Shrub, 6 ft.
- 187 Asclepias curassavica L. 3-4 ft.; corolla red,
crown orange.
- 188 Cenchrus
- 189 Eupatorium Roseorum Robins. Erect half shrub; fls. lilac.
- 190 Cissus canescens Lam. more or less woody, fls.
greenish white.
- 191 Melochia lupulina Sw. 2-4 ft.; fls. white.
- 192 Adenaria floribunda HBK. shrub; fls. white, in clus-
ters in axils.
- 193 Panicum common in cut over soil.
- W-1 194 Coix
- 195 Justicia comata (L.) Lam. herb
- 196 Momordica charantia L. Vine, fls. yellow.
- 197 Hyptis mutabilis (Rich.) Briq. herb, 5-8 ft, fls. lilac.
- 198 ~~Parsonsia~~ *Cupressa cartaginensis* fls. pink-purple.
- 199 Panicum
- 200 Heliotropium rufipilum genuinum Johnston ft. fls. white.
- 201 Biñai Simple stems, equally leafy;
Heliconia cannoidea L.C. Rich fls. yellow, dark green
at apex.
- 202 Dry pond Paspalum

- 20203 *Dalechampia scandens* L. Vine, herbaceous
- 204 *Chamaesyce thymifolia* (L.) Millsp.
- 205 *Mimosa pigra* L. Shrub, very prickly, 5 ft;
fls. rose,
- 206 ~~*Lippia geminata* HBK (Gray Herb.)~~ half shrub, 2-5 ft, fls.
Lippia alba (Mill.) N.E.Br. (EPK) pink.
- 207 ~~*Bradburysia virginiana* (L.) Kuntze~~ herbaceous vine, fls. lilac
Centrosema pubescens Benth. & purple.
- 208 *Boerhaavia caribaea* Jacq. viscid. fls. purple.
- 209 ~~*Cucurbit*~~ *Sicyos* Vine
- 210 *Teucrium vesicarium* Miller 2-3ft. fls. pink.
set Epling
- 211 *Talinum paniculatum* (Jacq.) Gaertn. woody at base; leaves fleshy.
- 212 *Acalypha subcastrata* Aresch.
- 213 *Panicum*
- W-1 214 " "
- W-1 215 " "
- 216 ~~*Amaranth*~~ *Pfaffia resinoides* (HBK) straggling, 6 ft. fls. white.
Epling.
- 217 *Garcilassa rivularis* P. & E. 3-6 ft. fls. green.
- 218 *Chamaecrista stenocarpa* (Vogel) Britt. 2 ft. fls. yellow.
- W-1 219 *Gliricidia sepium* (Jacq.) Steud. Tree 30 ft, planted along
fence; fls. pink-tinged.
- 220 *Triumfetta semitriloba* L. 8 ft. fls. yellow.
- 221 *Triumfetta lappula* L. Fls. smaller than in 20220
- 222 *Ipomoea quinquefolia* L. herbaceous vine, fls. white.
- 223 *Piper pseudo-marginatum* 6 ft.
- 224 Shady place *Ichnanthus*

20225 *Ipomoea Meyeri* (Spreng.) G. Don herbaceous vine, fls. purple-blue.

W-1 226

Blades palmate; fls. green, short
pediceled; fruit 1 in., ovoid,
smooth.

Scrubby woods, native vegetation; low flat land, very
wet in wet season, now completely dry except for a few ponds
(all except as otherwise noted)

July 1, 1923

20227 *Baccharis trinervis* (Lam.) Pers. 8-12 ft. fls. white.

228 *Eupatorium inulaefolium* HBK. f. *suaveolens* (HBK.) Hieron.
shrub 10-12 ft. fls. white.

229 *Adenaria floribunda* HBK. Tree 15-20 ft, fls. in axillary
clusters white.

230 Labiate Herb, long straggling branches,
fls. lilac.

231 *Eupatorium laevigatum* Lam. 8-12 ft. fls. lilac.

W-1 232 4 ft., felty and prickly; fruit
globose, felty-hirsute, 2
cm. diam.; fls. white.

233 *Axonopus* long runners floor of scrubby
forest.

234 *Cestrum calycinum* Willd. Small tree or tall shrub, 10-
20 ft., fls. green-yellow-
ish green.

- Heteranthera reniformis R. & P.
- 20235 On dried mud, in wet seasons in pond. Water plant, fls. white.
- 236 Lasiacis, clambering in woods, same as Guayaquil, fr. small for sorghoides.
- 237 Oplismenus
- 238 Cordia Tree 30-40 fr, fls. greenish.
- 239 Triumfetta Lappula L. shrub 6 ft. fls. small, yellowish green; blades lobed.
- 240 Triumfetta semitriloba L. shrub 5-8 ft. fls. medium pale yellow; blades scarcely lobed.
- 241 Solanum *hyssocaly cosarum* Pitt Small tree, 10-15 ft., fls. white.
- 242 Adenostemma Lavonia (L.) Ktze fls. white.
- 243 Piper melagrense Trel. TYPE Shrub 6-15 ft.
- 244 Euphorb tree 25 ft. fls. greenish.
- 245 Cordia Eggersii Krause tree 25 ft. fls. white.
- 246 ~~Stemphyllanthus~~ *grandifolius* L. (Comp. at Berlin) vine, 30 ft. fls. greenish.
- 247 ~~Cassia biflora L. herbaceous vine, fls. yellow.~~
- 248 *Chaetocalyx paniculatus* Harms Half shrub 8 ft. fls. orange-yellow viscid.
- W-1 249 Mimosa pigra L. Fruit of a prickly Mimosa with rose fls., already collected.

- 20250 Solanum Half shrub, erect, 5-8 ft, fls. white.
- 251 Spirodela Surface of water of pond.
- 252 Around pond, Homalocenchrus
- 253 Moist place Canna 3-6 ft., fls. clear pale yellow
- 254 " " Pennisetum Single spikes terminating culms or the few very long branches; culms decumbent-rooting at base.
- W-1 255 *Ecliniidorns subulatus* (Mart.) Griseb.
- 256 Dried up pond Paspalum
- 257 " " " Panicum
- 258 Mesachites trifida (Jacq.) M. Arg. Vine, fls. yellowish green, pods long and slender.
- 259 Clibadium surinamense L. Shrub, 6-10 ft. fls. white.
- 260 Bihai
Heliconia latispatha Benth.
Det Griggs 5-10 ft., bracts scarlet at margin & apex; lowest bract usually developed into a blade; blades sometimes bronze beneath.
- 261 Clibadium surinamense L. Shrub, 8 ft. fls. white.
- W-1 262 Dried up pond
- 263 Mikania micrantha cynanchifolia (HBK.) Robins. Herbaceous vine, fls. white.
- 264 Cissus sicyoides L. Woody vine, inflorescence scarlet.
- 265 Cordia Eggersii Krause Tree 25 ft. fls. white.
-

Same

July 2

W-1 20266

Rytilix

267 Along fence

3 ft. Poinsettia heterophylla (L.)

268 Meibomia purpurea (Mill.) Vail

6 ft. fls. pink, fading to
bluish.

269 In cut cornfield.

Ipomoea polyanthes R. & P.
Vine, fls. yellow, considered a
pest.

270 Ipomoea aegyptia L.

Vine fls. white.

W-1 271 Along roadside Syntherisma

272

"

"

"

273

Phoradendron

viscifolium H. B. K. Trul.

On a tree.

274

Paspalum

Rough sheaths; common, clamber-
ing over bushes, fence posts
and trees to as much as 15
ft., old racemes reflexed.

275 Phaseolus hirsutus Mart.

Herbaceous vine, fls. yellow.

276 Dried up pond

Herb Cynoctonum Mitreola (L.) Britt.

277

"

"

Jussiaea suffruticosa L.

Fls. yellow, petals fugacious.

278

"

"

Echinidorus arbulatus
Alismaceae (Mart.) Griseb

279

"

"

Manisuris

280

"

"

Radicula Nasturtium-aquaticum (L.) Britton & Rendle

281

"

"

Physalis

Annual, fls. yellow with purple
eye.

282

"

"

Herb. Microtea debilis Sw.

- W-1 - IV-1 20283 Along stream Panicum Among Cynerium sagittatum; hairs
on sheaths prickly, irritating.
- 284 Inga Tree 40 ft. fls. white.
- 285 Among shrubs and grasses Leptochlos
- 286 Nama spinosa (L.) Kuntze 4 ft.; fls. a beautiful blue-
purple.
- 287 Cissus *Rhombifolia* Vahl. (FORM) Woody vine, inflorescence red.
- 288 Cestrum *reflexum* Sendtn. Tree, 35 ft. fls. yellowish green.
- 289 Mendoncia quadrata Leonard Herbaceous vine, fls. white with
purple spots in eye.
- 290 Edge of timber Carica Papaya, wild similar to the cult.
Dioecious. with sessile fls,
2 in. long: fruits numerous, shape
of cult. but smaller, 4-6 in.
Trees up to 15 ft. in panicles
1 ft. long; fls. smaller.
- 291 Hamelia pedicellata Wernh. Shrub 6 ft. fls. yellow & red.
- ~~292 DEPHROMERIA POEPPIGIANA SCHINDL.~~
- ~~292 Meibomia infraeta (DC.) Blake~~ Herbaceous vine
- ~~MEIBOMIA INFRACTA (DC.) BLAKE.~~
- 293 Chamissoa altissima (Jacq.) HBK. Shrub 15 ft, with straggling or
vine like branches; fls.
white.
- 294 Panicum Straggling and branching at base.
- 295 Lasiacis

20296 *Calopogonium coeruleum* DC. Herbaceous vine, fls. blue.

W-1 297 Among bushes *Castilleja communis* Benth.

298 *Adipera Hitchcockii* B. & R. (Cassia) small tree, 15 ft. fls. yellow.

299 In timber *Lasiacis* Straggling and branched at base.

Province Chimborazo. Huigra. Along July 4

Ry 2 km. to east

20300 *Lemaireocereus godingianus* B. & R Organ cactus, up to 20 ft.

301 *Ipomoea* Herb. vine fls. purple.

302 *Parosela astragalina* (HBK.) Shrub 6 ft. fls. blue.

303 *Gnaphalium elegans* HBK. 2-3 ft.; fls. white.

304 *Minthostachys mollis* (HBK.) Epl. Halfshrub, 6-8 ft. fls. pale lilac.

305 *Hyptis pectinata* 6 ft.

W-1 306 Shrub 3 ft. fls. blue.

307 *Acnistus arborescens* (L.) Schlacht " 10-20 ft. fls. white.

308 Flat mats in open ground *Richardia brasiliensis* Gomez

309 *Lepidium bipinnatifidum* Desv. Weed along track.

310 *Eupatorium solidaginoides* HBK. Half shrub 8 ft. fls. white.

W-1 311 *Euphorbia boerhaavifolia* Boiss.

312 *Allionia prostrata* (R. & P.) Kuntze straggling much branched.

W-1 313 *Chaetochloa*

314 *Alternanthera paniculata* HBK. *elongata* (Willd.) Standl. " " fls. crimson.

315 *Begonia* Thick stem, 1-2 in., 1 ft. tall, infl. at summit, fls. white, pink-tinged; no leaves present.

- 20316 Labiate 6 ft fls. lilac
- 317 *Mentzelia soaratus* Urb. & Gilg Shrub, 8 ft. fls. orange.
- 318 *Siegesbeckia orientalis* L.(?) Fls. yellow.
- 319 Carduaceae. *Baccharis polyantha* HBK. ~~Det. E. P. R. K. K.~~ Shrub 10 ft. fls. white.
- 320 *Cuscuta odorata* Growing on various shrubs and herbs; fls. shining white.
- 321 *Helianthus hyperargyreus* Blake 3-5 ft. fls. yellow.
- 322 Along Ry cut *Muhlenbergia*
- W-1 323 herb 3-5 ft. fls. scarlet.
- 324 *Salvia tiliaefolia* Vahl 3 ft. in fruit.
- 325 *Dioscorea chimborazensis* Knuth Vine, leaves all withered.
- W-1 326 Along Ry cut *Pereilema*
- 327 " " " *Adiantum concinnum* H. & B.
- 328 Slope of hill *Andropogon*
- 329 *Heteropogon* Annual, culms mostly single.
- 330 *Castilleja communis* Benth. Flowers scarlet.
- W-1 331 *QUAMOCIT COCCINEA* Vine fls. scarlet (L.) MOENCH.
- 332 *Clematis sericea* HBK. Woody vine in fruit.
- 333 Dry slopes *Uniola* Bunches.
- 334 *Helianthus hypargyreus* Blake Herb 3-5 ft. fls. yellow.
- 335 ~~Pavonia~~ *Sida ricinoides* L'Her 6 ft fls. salmon pink.
- 336 *Croton callicarpaefolius* Vahl Small tree or shrub 8-20 ft.

20337 *Lycopersicon* ^{*hirsutum* f. *glabratum* Muller (Det. Muller)} ~~*cerasiforme*~~ Dunal Herb. branches slender, vinelike
fls. yellow.

338 *Buettneria* ^{*glabrescens*} ~~*parvifolia*~~ Benth. Tree or shrub 6-20 ft.

W-1 339 Rocky cut *Pellaea flexuosa* (Cav.) Link

340 Open ground *Chamaesyce lasiocarpa* (Kl.) Arthur Leaves with dark spot.

341 *Paspalum*

342 *Vernonia canescens* HBK. Shrub 6-8 ft. fls. white.

343 *Barnadesia* " 10-15 ft. rays crimson.

344 Dry slope, among shrubs *Melica*

345 *Cardiospermum grandiflorum* Sw. Vine, fls. white.

346 *Piquieria peruviana* (Gmel.) Robins Shrub 10 ft. fls. white.

347 *Tillandsia* ^{*latifolia* var. *divaricata* (Benth.) Mez} ~~*Barbeyana* Pittm.~~ Det. L. B. Smith On trees, fls. lilac.

348 *Carduaceae* Half shrub fls. orange.

349 Bog *Polypogon* Perennial.

350 " *Agrostis*

351 " *Kyllinga brevifolia* Rottb. Perennial with rhizomes.

352 " *Eleocharis costulata* Nees & Meyen

NW-II

353 Rocky slope *Pennisetum*

354 Rocky cliff *Notholaena sinuata* (Sw.) Kaulf.

355 *Mikania cordifolia* (L.f.) Willd. Vine, all upper part herbaceous;
fls. white.

356 *Cissus compressicaulis* R. & P. Creeping over rocks and along
ground.

357 *Solanum nigrum* L.

- 20358 *Eurerea macrophylla* ~~Piper~~ ^{Det. H. P. Winters} Common on the slopes; leaves 2-4 ft. even 8 ft. long, mostly 4-6 in. wide, infl. 10-15 ft.
- 359 *Liabum eggersii* Hieron. Shrub 8-15 ft. blades white-tomentose beneath, fls. yellow.
- 360 *Cenchrus*
- 361 Slope *Chaetochloa* Base decumbent and tangled in shade of bushes.
- W-1 362 *Lesiacis*
- 363 *Eupatorium odoratum* L. Shrub 10 ft. fls. lilac.
- 364 *Malvastrum scabrum* (Cav.) Gray
- 365 *Hyptis lachnosphaeria* Epl. TYPE Half shrub, branches long & straggling, up to 10 ft. fls. bluish.
- 366 *Helianthus hypargyreus* Blake 3-5 ft. fls. yellow.
- 367 ~~Fabaceae~~ ^{**INDIGOFERA SUFFRUTICOSA**} ^{MILL.} Creeping vine; fls. salmon-orange.
- 368 *Parosela astragalina* (HBK.) Shrub 6 ft. fls. blue.
- 369 *Carduaceae* Herb. single stem up to 12 ft.
- 370 Rocky slope in moist place ^{? E. R. C.} Vine 30 ft. *Myriocarpa stipitata* Bth.
- 371 *Physalodes physalodes* (L.) Britt. 4 ft. fls. blue.

- 20372 Pavonia sepium St.Hil. 6 ft. shrubby, fls. orange yellow.
- 373 Allionia prostrata (R. & P.) Kuntze
- SW-11 374 Vernonia canescens HBK. Half shrub fls. white.
- 375 Minthostachys mollis (HBK.) Epl. " " 6 ft. fls. white.
- W-1 376 Lasiacis
- 377 Rocky, shrubby moist slope. Small tree or shrub up to 20
Bocconia integrifolia (H. & B.) DC.
ft.; juice orange even in
trunk.
- 378 " " " " in shade. Adiantum concinnum H. & B.
- 379 Oxalis pubescens HBK. Fleshy stem, 1 ft.; fls. orange-
yellow tinged with brown.
- 380 Rumex conglomeratus Murray Herb 3 ft. straggling branches.
- 381 Crotalaria incana L. 4 ft.
- 382 Sporobolus
- 383 Tessaria integrifolia R. & P. Shrub 8-15 ft. fls. lilac.
- 384 Bog Jaegeria hirta (Lag.) Less.
- 385 Carduaceae. Baccharis polyantha HBK. 8-15 ft. fls. white. Det. E. P. Killip
- 386 Croton ruizianus muell. Arg. (Det. Croizat) small tree or shrub 15 ft.
- 387 Varronia Rosei (Killip) " " " " " "
- SW-11 388 Caesalpinia pectinata Cav. " " 20 ft. mostly in fruit.
Common.
- 389 Viguieria aurea 5 ft. fls. orange-yellow.

- 20390 *Eupatorium odoratum* L. Shrub, 16 ft. fls. lilac. (All leaves with fungus)
- 391 *Piper phytolaccaefolium* Shrub, 6 ft.
- 392 *Phenax laevigatus* Wedd. " 8-15 ft.
- 393 Floating on water in bog *Azolla*
- 394 Bog *Hydrocotyle* ~~*licayensis* Rose~~ *leucocephala* C. & S. Fls. white.
- 395 " *Eleocharis montana* R. & S.
- 396 " *Anagallis pumila* Sw.
- 397 " *Cuphea* *racemosa* (Z. f.) Sp. *racemosa* (Z. f.) Sp.
- 398 " *Calceolaria palustris* Sodiro (! F.W.P.) *Pagelia* Fls. pale yellow.
- W-1 399 " *Muhlenbergia*
- 400 " *Viguiera aurea* (HBK.) Hieron. 3 ft. fls. orange-yellow.
- 401 Floating in water of bog. *Lemna*

Province of Guayas. Teresita, (a banana plantation) July 5
3 km west of Bucay. Very rainy place, rains usually every day.

- W-1 20402 On tree trunk *Asplenium auritum* Sw.
- 403 " " " *Peperomia monoceros* Trel
- 404 Open ground *Pilea hyalina* Fenzl
- 405 *Datura* Small tree, 10 ft., fls. white, pendulous.

20406 *Guzmania lingulata* (L.) ^{mez.}_{forma.} On tree; bracts scarlet, fls. scarlet below, white at apex.

W-1 407 *Tillandsia nartecioides* Presl? On tree, fruiting raceme decurved

408 *Peperomia bucayana* Trel. TYPE " " trunk.

409 Orchid " " "

410 *Polypodium* " " "

411 *Peperomia cryptostachya* Trel TYPE " " "

412 *Didymochlaena truncatula* (Sw.) (J.Sm.) Terrestrial, frond 4-5 ft.

413 Open ground *Paspalum*

414 *Ossaea micrantha* (Sw.) Macf. Tree 15 ft. fls. white.

415 Common in woods Bamboo, spiny, as much as 6-7 in. diam., 60 ft. tall; feathery looking in distance like *Phyllost. mitis*. Young shoots rather stout, rather blunt pointed; sheaths strongly hirsute with black hairs, the young shoot appearing dark.

416 *Psychotria macrophylla* R. & P. Shrub 3-8 ft; fls. greenish, fruit globose, whitish-green, 5 mm. diam.

- 20417 *Erythrina esculenta* Sprague Tree, 15 ft. few branches;
leaves clustered at end of
stem & branches; fls. scarlet,
very deciduous, on slender branches from trunk; fruit globose,

schimpffii Diels 1-seeded. (20545)

- 418 *Erythrina esculenta* Sprague Tree similar to 20417; single
leaves trunk, leaves clustered
at summit; fls. scarlet, very
deciduous on fls. slender
branches from lower part of
trunk; fruit 6 in. long.

- 419 *Aspilia eggersii* Hieron. 4 ft. fls. yellow.

- W-1 420 *Eschatogramme furcata* (L.) Trev. On tree trunk.

- 421 *Campelia zanonina* (L.) HBK. Stout erect stems 3-5 ft.; fls.
purplish.

- 422 *Peperomia chalazodea* Trel. TYPE On branch of tree.

- 423 On moist ground *Selaginella*

- W-1 424 Moist open ground *Panicum*

- 425 *Ichnanthus* tangled mass, edge of thicket;
sheaths hirsute.

- 426 Moist ground edge of thicket, fls. white.

Tradescantia geniculata Jacq.

- 20427 Moist ground herb 8 ft., single stem with short branches
Schistocarpa paniculata Klatt (det.SFB); *S. oppositifolia* (Kuntze) Rydb.
 fls. yellow. = *S. Hoffmannii* Kuntze (det.PAR)
- 428 " " " greenish. *Aneilema ovato-oblongum* Beauv.
- 429 " " *Oplismenus* Tangled 3-4 ft. long, fl.
 branches erect.
- 430 *Clibadium laxum* Blake ISOTYPE Branched herb, 6-8 ft. fls. white.
- 431 *Urera baccifera* (L.) Gaud. 3-4 ft. stinging nettle.
- W-1 432 Clambering in thicket *Lesiacis*
- 433 Open moist ground *Penicum*
- 434 " " " *Paspalum* Weed in field

Teresita forest between house and station. Collections
 in forest and along edge. July 6.

- W-1 20435 *Palandra aequatorialis* Trunk 6 ft. up to inflorescence;
 (Sprule) Cook Det. E. P. Killip infl. creamy white, 4 ft. pen-
 dulous; leaves about 15 ft.
- 436 Bromel *Guzmania* ^{L. B. Smith (type)} *hitchcockiana* On small tree 3 ft.
- W-1 437 Forest *Lesiacis*
- 438 " " "
- W-1 439 *Polypodium loriceum* L. On tree
- GW-11 440 Terrestrial, mostly acaulescent,
 petiole 2-3 ft. fls. white.
- 441 Orchid On tree branch.
- 442 *Hidalgoa ternata* Llave & Lex. High climbing herbaceous vine;
 leaflets 3; disk yellow,
 rays red.

W-1 20443

Shrub 3 ft.; tip of leaf scarlet;
fls. greenish with dark purple
streaks; blades similarly
colored along midrib and veins
beneath.

444 *Clidemia dentata* (Pav.) D. Don

Shrub 6-8 ft. corolla white calyx
pink.

445 Forest in shade. *Ichnanthus* probably 20446

446 Edge of forest in open *Ichnanthus*

W-1 447

Shrub single stem, fls. white.

W-1 448

About 4 ft. fls. creamy.

449 *Faramea maynensis* Spruce

Shrub 4-8 ft. fruit (unripe)
dark green.

450 *Araceae*

Erect from decumbent base.

451 *Tournefortia cuspidata* HBK
Tournefortia hispidissima L.

Shrub 4-8 ft. fls. white.

452 *Asplenium serratum* L.

On tree

453 Forest

Pleiostachya Morlaei (Eggers) K. Schum.
from ground; fls. creamy, 1
petal pink.

W-1

454 *Peperomia Hitchcockii* Trel TYPE

On branch of tree.

455 *Eschatogramme hitchcockii* C. Chr.

On tree.

456 *Begonia*

Climbing high, woody, fruit only.

457 *Asplenium auritum* Sw.

On tree.

458 *Peperomia chalazodea* Trel. TYPE

On branch of tree.

459 *Peperomia teresitana* Trel. TYPE

" " " " (20454?)

W- / 20460 Tabernaemontana Poeppigii Muell. Arg. 4 ft. fl. white.

461 Gesneraceae " 3-6 fr., fls. pale yellow,
bracts or calyx orange
red; tips of leaves red-
brown.

W- / 462 Polypodium fraxinaefolium Jacq On tree

463 Gesn raceae Shrub 4 ft. fls. reddish yellow

464 Open ground, clearing. Vine. Ipomoea tiliaceae (Willd.) Choisy

465 Polypodium ^{acutellum (Alston) Fischel & L. R. Hata} ~~piloselloides~~ L. On tree branch.

466 Costus ^{spiralis (Jacq) Rose} ~~Det. L. R. Smith~~ Shrub, single stem; leaves spi-
ral; bracts red, fls. orange
red.

467 Panicum

468 Open ground edge of timber. Ichnanthus low growing
cf 20446

469 Weed along road. Flowers blue. Browallia americana L.

470 Axonopus "Gamalote", good forage; 6 ft.
common, indigenous.

471 Open ground. Euphorbia adiantoides Lam.

472 " " Chetochloa

473 " " Fls. yellow. Lotoxalis Barrelieri (L.) ^{Small}

474 Moist open place. Hydrocotyle lieayensis Rose ^{Auercephala} ~~C. r. s.~~
~~Pouzolandra tunicatula~~
(Lam.) Martens

- 20475 *Blakea subconnata* (Taf.) Berg Tree 20 ft. fls. pink, rose tinged.
- 476 Up to 12 ft.; inflorescence 4 ft. from ground; fls. *Calathea insignis* Peters pale yellow.
- W-1 477 Shrub 3 ft. fruit scarlet.
- W-1 478 Shrub 8 ft.
- 479 On tree *Nephrolepis*
- 480 Vine, fls. white. *Nephromeria Poeppigiana* Schindl.
- 481 Shrub 6-8 ft. fls. white. *Trichilia macrophylla* Benth.
- 482 Leafy stem 3 ft., calyx red, corolla white-cream. *Renealmia*
- 483 Tree 20 ft. fruit orange to red. *Allophyllus punctatus* Radlk.
- 484 Floor of forest erect. *Selaginella*
- W-1 485 On tree.
- 486 On floor of forest herb *Spigelia anthelmia* L.
- W-1 487 Terrestrial, 3 ft.
- 488 Acaulescent. Araceae *Vincentia ENSIFOLIA* Baill.
Bockl.
- 489 Climbing. Araceae
- 490 Woody vine, fls. greenish white. *Aparisthium cordatum* (Juss.)
- W-1 491 cf 20450
- 492 Shrub 6-10 ft. fls. purplish blue. *Cornutia odorata* (Poepp. & Endl.) ^{Poepp.}
- W-1 493 Woody vine, high climbing, fls. yellow with brown streaks, calyx green; pedicels & base of calyx purplish. *Prestonia portobellensis* (Benth.) Woods.

- 20494 Wulffia baccata (L.F.) Kuntze Shrub, wide spreading; heads yellow.
- 495 Mandevilla veraguensis (Seem) Woody vine, high climbing; fls.
Hemsl.
racemose, corolla green outside,
dark purplish blue inside.
- 496 Low moist place Peperomia hispidula
- 497 Solanum Shrub, wide-spreading, 10 ft. fls.
white.
- 498 Mucuna **ROSTRATA BENTH.** High climbing woody vine; fls.
orange, spotted with dark red
or nearly all red.
- 499 Opening in forest Imperata
- 500 Liabum eggersii Hieron. Shrub, wide-spreading, 6-10 ft. fls.
yellow.
- 501 Centropogon cornutus (L.) Druce 3 ft. fls. scarlet-rose.
- 502 Monnina *paniculata Benth.* Shrub 6-8 ft. fls. rather dark blue.
- 503 Moist open ground, Creeping and rooting in mats; fls.
Lindneria crustacea (L.)
blue-lilac.
- 504 3 ft. fls. yellow (cf 20419)
- 505 Begonia High climbing, fls. white.

Triseta, Road through forest and along Ry. west of station.

July 7

- PIPER PELTATUM**
20506 ~~Petomorphe peltata~~ (L.) Miq. Herbaceous vine, 3-4 ft.
- 507 Pseudabutilon spicatum (HBK) Erect herb 3 ft. fls. yellow.
Fries

20508 *Manettia teresitae* Standl. herb. vine fls. scarlet.

509 ~~*Fabaceae*~~ *Chaetocalyx paniculatus* Harms. " " " yellow.

W- (510 Along Ry. small tree, fls. white.

Passiflora crenata Plow. fls. white

511 Shrub or nearly herbaceous, 8-15

Eupatorium obtusicaquamosum Hieron.

ft. fls. white.

512 8 ft. leaves in spiral, single termi-

Costus argenteus R. & P. det. L. B. Smith

nal cone.

513 Single stem 8 ft; leaves clustered

at summit, fruit ovoid scarlet.

514 Shrub 5 ft. fruit globose, some-

Psychotria racemosa (Aubl.) Willd.

what depressed, orange.

515 Vine, herbaceous, fls. white, no

Mikania cordifolia (L.f.) Willd.

leaves on part accessible.

516 Woody vine, fls. white, standard

Bradburya Plumieri (Turp.) Kuntze

with a showy purple center, other parts purplish at tip.

W- (517 *Gynerium* Common along river

W- / 518 4 ft. fls. scarlet, dark-tipped.

W- / 519 Terrestrial; fls. white

520 *Meibomia uncinata* Fls. white. (Jacq.) Kuntze (A.F.F.)

W- / 521 *Axonopus*

522 Terrestrial

Dryopteris Sloanei (Baker) Ktze var. *pallescens* (C.Chr.) det. Weatherby

Dryopteris oligophylla Max. var. *aequatorialis* C.Chr. det. Maxon

- W-1 20523 Lasiacis Clambering, much branched.
- W-1 524 "
- W-1 525 Acaulescent or nearly so.
- 526 Anthurium Saccardoi Sod. " " " "
- 527 Vernonia baccharoides Shrub or tree up to 20 ft. fls. white.
- W-1 528 ~~Stenospermatum~~ Climbing.
Longipetiolatum Engl.
- 529 Polypodium
- W-1 530 Shrub 6 ft. fls. on bare stem.
- 531 Arthrosterma campanulare Shrub 4-8 ft. fls rose.
(Naud.) Triana
- 532 Hemistylis boehmerioides Bth. Herb 4 ft.
- 533 *Allophyllus biophloeus* Tree or shrub, 15 ft. fls. white.
Radlk. (red aff.)
- 534 Forest Isachne
- 535 " Panicum
- 536 Open place along trail in forest Panicum
- 537 Araceae Climbing
- 538 Edge of forest Chaetochloa, 6 ft.

Road through forest to Bucay July 7

- 20539 Echites trifida Jacq. Vine, probably woody, but accessible
portion herbaceous.
- 540 Rubus boliviensis Pocke Shrub, 6 ft.; fls. white, fading
pink, fruit black.
- W-1 541 *Renalmia rubroflava* K Sch. Basal stem 1 ft. fruit scarlet.
Det. B. P. Killip
- 542 Bihai 15 ft. blade 4 ft. long, 14 in. wide
bracts scarlet above, 10 in
cluster.

20543 *Costus argenteus* R. & P. 12-15 ft., leaves in spiral, fls.
Det. L. B. Smith
 4 in. long, pale lilac, or white
 tinged with lilac.

544 Gesneriaceae Shrub 8 ft; fls. scarlet.

545 Fruit of 20417

546 *Diplazium obtusum* Desv. Terrestrial, fronds 10 ft.

547 *Diplazium obtusum* Desv. " " 6 ft.

548 *Cucurbit* *Sicyos montana* Herb. vine.

549 *Cucurbit* *Cyclanthera tenuisepala* " " *Cyclanthera aff. C. tenuisepala*
Det. H. P. Killip Cogn.

550 Gesneriaceae Moist vertical face of rock; fls.
 white.

551 *Gouania polygama* (Jacq.) Urb. Woody vine, climbing high; fruit
 3-angled or with thick wings.

W-1 552 *GOUANIA POLYGAMA* (Jacq.) Urb. 20551, more mature fruit.

W-1 553 Leaves 5 ft., spathe white.

554 *Hamelia grandiflora* Spruce Shrub 10-15 ft., fls. yellow fruit
 scarlet.

Province Guayas. Panigón Plantation 8 miles south of Milagro.

July 11.

W-1 20555 Axonopus, from Colombia, being tested by Mr.
 Rorer as forage plant.

556 Common along river *Gynerium* called "Cana veral".

557 Cut-over land Herb. vine; fls. blue.
Calopogonium mucunoides Desv., or *C. orthocarpum* Urban

558 Tree 40 ft. fls. yellowish green.

GUAZUTIA ULMI FOLIA Lam. "Guarmo" firewood, fairly hard.

- 20559 Eriochloa
- W-1 560 Imperata Common, bad weed.
- 561 Muntingia calabura L. Tree, furnishes the wood
"neguito" soft, easily
worked, for inside timbers
and frame work of houses.
Trunk mostly straight
and excurrent; fls. white.
- 562 Eriochloa Common along river and in low
land; looks like Para grass
but finer. Called Janeiro
morado. Cult. as forage.
Nodes hirsute.
-

July 12

- 20563 Ipomoea Meyeri (Spreng.) G. Don Herb. vine; fls. rose-purple.
- 564 Old field 3-4 ft. herb. fls. white.
- Baccharis trinervis (Lam.) Pers.
- 565 Weed in old field Rytilix
- 566 Edge of field Andropogon Large masses.
- 567 Phyllanthus grandifolius L. Tree 30 ft. fls. yellowish
green called "Jobo".
- W-1 568 Lasiacis
- 569 "

20570 Eragrostis Annual, 4 ft. bunches of 8-10 culms.

571 Damp place Panicum

572 Piper pseudomarginatum Shrub 6-10 ft.

573 Edge of woods Oplismenus

574 Solanum suaveolens (Kth. & Bouché) Straggling rather delicate herb,
stems up to 6 ft. long but low;
fls. white.

575 Cucurb *Elaterium* Herb. vine, fls. white.

W-1 576 Lesiacis

W-1 577 Phragmites? "Cariza", gregarious, not in flower.

578 In old field Porophyllum ruderae (Jacq.) Cass.

579 In water Looks like our water hyacinth, fls.
Piaropus azureus (Sw.) Raf.
white, upper petal with blue
patch at base and orange-yellow
spot at top of blue.

580 Moist place Panicum Large clump.

581 Chaetochloa Among Cynerium and shrubs.

July 13

W-1 20582 *Inga CONFERTA* Benth. Used as shade for coffee & cacao also
(Comp. at Kew; - HATHENS 1595) wild; fls. white. "Guabo de
Bejuco"

583 *Trema micranthum* (L.) Blume Tree 30 ft., fls. green. "Sapan de
Paloma"

- W-1 20584 Lasiacis Note open panicle and small spikelets.
- W-1 585 The common large bamboo; shows vigorous leaves of young shoots.
- 586 *Milleria quinqueflora* L. Herb 8 ft.; fls. yellow.
- 587 *Smilax* Woody vine.
- 588 *Centrosema* ^{*pubescens*} ~~*virginicum* (L.)~~ Benth. Herb. vine, fls. rose-purple.
- 589 *Serjania diffusa* Radlk. Woody vine, fls. white.
- 590 *Ipomoea Meyeri* (Spreng.) G. Don Herb. vine, fls. rose purple.
- 591 *Erythrina* ***GLAUCA* Willd.** "Palo prieto", used as shade for cacao; fls. standard salmon-yellow, wings red on upper half, keel very pale yellow tinged with red; tree up to 40 ft; trunk and branches with short prickles.
- 592 Solanaceae Shrub 8 ft.; fls. white.
- 593 *Prestonia glabrata* HBK. Vine, flowering part at least herbaceous, fls. yellow.
- 594 *Jatropha curcas* L. "Physic nut" "Pinon". Used for live fence posts in dry land; will not endure water.

- 20595 *Echites trifida* Jacq. Herb. vine, fls. white.
- W-1 596 *Cenchrus* Annual, 2 ft. large clumps.
- 597 Common in sandy dry river channel, fls. yellow.
- W-1 598 *Crotalaria anagyroides* HBK. "Gamalote" runners as much as 12
Axonopus ft., on new soil along river.
- W-1 599 *Paspalum* Forming long slender runners as much
as 4 ft., along river on new
soil.
- 600 Cut-over land Herb. vine.
- W-1 601 *Ipomoea polyanthes* R. & S.
Panicum
- W-1 602 *Pennisetum* Among brush & tall shrubs.

Province Chimborazo, Huigra July 16

Dry bushy slope, hill north of Huigra.

- 20603 *Cucurbit* Herb vine, thickly covering brush
near waterfall.
- 604 *Cucurbit* Same.
- 605 Rocky bank *Adiantum concinnum* H. & B.
- 606 Shady bank *Carex polystachya* Wahl. (Det. Mackenzie)
- W-1 607 *Lasiacis* Among shrubs
- W-1 608 *Chaetochloa* Slender, branched, straggling among
shrubs, perennial.
- W-1 609 *Velota?* Among shrubs
- 610 Dry hill *Stipa*

- 20611 Dry slope Bulbs; fls. rose-salmon except green
Phaedranassa chloracea Herb. lobes with white margins.
- 612 ~~Polygala~~ *Monnina chandru-* 3 ft.; fls. purple.
yensis Chod.
- 613 *Eragrostis*
- 614 *Onoseris speciosa* HBK. Fls. rose-purple.
- 615 *Meibomia uncinata* (Jacq.) OK. Long straggling vinelike; fls. rose
to blue or purplish.
- 616 *Andropogon*
- 617 *Calea huigrensis* Blake Shrub 3 ft.; fls. yellowish.
- 618 *Tropaeolum huigrense* Killip Herb. vine; fls. yellow with orange
veins on the 2 large petals.
- 619 *Arcytophyllum thymifolium* Shrub 1 ft.; fls. white.
(R. & P.) Standl.
- 620 ~~Favonia~~ *Sida ricinoides* L'Her. Herb 4 ft.
- W-1 621 *Heteropogon* (probably 20329)
- W-1 622. *Polygala paniculata* Fls. white.
leucoptera Blake
- 623 *Chamaesyce lasiocarpa* (Kl.) Annual; some plants with hard woody
Arthur base, others delicate.
- 624 *Onoseris salicifolia* HBK. Shrub 2-4 ft; fls. rose-magenta.
- 625 *Bauhinia* *dobbiemun* " 4-10 ft; fls. rose-scarlet.
Caesalpin (D. & R., ined.
- 626 *Andropogon* Large bunches on dry slope.
- 627 Dry slope *Muhlenbergia* Large bunches.
- 628 " " *Heteropogon*
- W-1 629 " " *Bouteloua*

- W-1 20630 Dry slope 3-6 ft.; fls. yellow.
Perymenium ecuadoricum Blake
631 " " Vine, seems to be herbaceous; fls.
Passiflora manicata (Juss.) Pers.
brilliant scarlet.
- 632 " " 3-6 ft.; fls. yellow.
Viguiera aurea (HBK.) Hieron.
633 " " Large cluster of leaves at base;
Tillandia erectiflora André
inflorescence 3-6 ft, bracts and
calyx scarlet, corolla white.
- 634 Somewhat shrubby, much branched,
Helianthus hypargyreus Blake
4-6 ft.; fls. yellow.
- W-1 635 Shady bank Pereilema Common.

Prov. Chimborazo Huigra to Naranjapata along railway.

July 17

- W-1 20636 *prucei mast.* Herb.vine; corolla lilac, filaments
of crown crossbarred with lilac
and purple.
- 637 Moist slope near *Echinocystis rusbyi* Herb. vine, fls. white; fruit very
Naranjapata Cucurbit spiny, spines rather soft, hir-
sute-lanate but point rigid.
- 638 Dry bank Bulb soft, fls. yellow.
Eucrosia Morleyana Rose

- 20639 Wet cliff, Waranajapata Begonia serotina A.DC. Erect, caudex scarcely above soil; fls. white.
- 40 probably 20639 Begonia serotina A.DC.
- 41 Rocky cliff Orchid Fls. rose-purple.
- 42 Begonia *ACERIFOLIA* HBK. Leaves of preceding flowering Begonia with stem 1 ft. high.
- 43 Partly shady slope Tripsacum, large bunches, 4-6 ft.
- 44 Fungus on 20643
- 45 Acalypha padifolia HBK. Tree or shrub, 10-15; fls. (stigmas?) purple
- 46 Mucuna *rostrata* Benth. Woody? vine; Infl. pendulous, (Comp. at Kew) fls. orange-yellow, standard and wings blotched with purple.
- W-1 47 Moist cliff Oxalis hedysaroides HBK.
- 48 Cliff and dry banks Gesner Fls. red, tinged with orange.
- 49 Eupatorium huijrense Robins. Straggling herb. 3 ft, fls. lilac-purple.
- 50 *Oxybaphus violaceus* (L.) Choisy. Herb. 2-3 ft. fls. pale purple.
~~Allionia braeteosa Griseb.~~
- 51 Eupatorium solidaginoides HBK. " 4-6 ft. fls. greenish yellow.
- 52 Moist bank Paspalum
- W-1 53 Stony bank Andropogon, probably 20616 but less pubescent.

- 20654 Moist place Chaetochloa Straggling among shrubs.
- 55 Stony bank Andropogon Panicle looser branches spreading (cf 20653)
- W-1 56 " slope Paspalum Among shrubs.
- 57 Wigandia crispa (R. & P.) HBK. Herb 3-8 ft.; fls. pale yellow
or creamy, greenish outside;
stems & foliage densely
covered with prickle-like hairs;
fls. not open in forenoon.
- 58 Along track Acalypha Foirerii Spreng.
- 59 Stony bank Pennisetum Heads brown-purple.
- 60 Dry slope Andropogon
- 61 Aristida Annual.
- W-1 62 Clematis sericea Fls. of a preceding no., fls.
scarce fruiting season.
- 63 Stony hill Erythrina smithiana ^{Krukoff (det. Krukoff)} Small tree 10-20 ft., no leaves,
branches and trunk with
short prickles; fls. scar-
let.
- 64 Anneslia subnervosa (benth.) Rose Small gnarled tree or shrub 5-10
ft. rose-scarlet-pale rose
fading to dark rose.
- 65 Along Ry. Prostrate mats.
Chamaesyce serpens (HBK.) Small.

20666 Begonia

Fls. to go with 20642 ?

67 Buddleia americana L*

Shrub 6-8 ft.; fls. yellow-green.

68 Among brush Pennisetum

Up to 10 ft.

69 Stony slope

"

5-6 ft, or taller, much branched
above.

70 Baccharis trinervis (Lam.) Pers. Straggling half-shrub, 3-4 ft.;

fls. creamy white.

71 Polypodium angustifolium Sw. Hanging from wet cliff.

72 Moist place in shade Panicum

73 Near Naranjapata.

Herb. vine.

(Valeriana Candolleana Gardn.

74 Moist woods

" " pods explosive.

Cucurbit

W- 75 Wet cliff

Fls. yellow.

Oxalis hedyaroides HBK.

W- 76 Rocky slope

Terrestrial, blades splotted with
purple.

77 " " Andropogon

78 Tibouchina longifolia (Vahl) Baill. Fls. white.

W- 79 " cliff

Terrestrial.

80 Moist slope Pereilema

81 Rocky cliff

Fitcainria exscapa Hook,

Often in large bunches of prickly

bracts with a few flowers. Fls.

scarlet. No large leaves (except

1 specimen), probably come at

different season.

20674. Cyclanthera?

20682 Among brush rather Chaetochloa
moist place

- 83 *Tovaria pendula* R. & P. Shrub 8-15 ft.; fls. whitish
green.
- W-1 84 *Schistocarpha paniculata* Klatt 3 ft.; fls. white.
- 85 *Hamelia patens* Jacq. Shrub or small tree 6-15 ft.;
fls. scarlet, fruit black.

Prov. Chimborazo, Alausí

July 19

- 20686 Grassy slope *Nassella* Common
- 87 Open cut *Aristida* Annual
- 88 Ry. " *Cotula australis* (Sieb.) Hook.f.
- 89 Open ground along Ry. *Bromus*
- 90 " " " " *Eragrostis* (not pilosa)
- W-1 91 Open grassland *Nassella*
- 92 *Barnadesia* Branched, 3-4 ft.
- 93 *Nicotiana rustica* L. (Det. Goodspeed) 2-4 ft.; fls. green.
- 94 *Labiatae* " " scarlet.
- W-1 95 Along Ry. *Chloris*
- 96 Open grass land *Bouteloua* Common
- 97 " " " 2-4 ft.; fls. rose-purple.
- Lamourouxia virgata HBK.
- W-1 98 " " " *Stipa* Common
- 99 *stuebelii* Hieron *Cestrum* Shrub 8 ft. fls. green.
- 20700 " " " *Cortaderia* Large bunches on hillsides,
basal cluster 3 ft. infl.
6 ft. head rose-tinted.

- 20701 Open grass land Stipa
- 02 Along arroyo Straggling, much-branched, 4-8
~~Allionia prostrata (R. & P.) Kuntze~~
Oxybaphus **EXPANSUS** (R. & P.) VAHL. ft.; fls. magenta-purple,
sticky.
- 03 Allionia prostrata (R. & P.) Kuntze Similar to 20702 but less sticky.
- 04 Open grassland Half shrub 1-2 ft. rays white.
Tagetes graveolens L'Her.
- 05 Along bank 1-2 ft.; fls. lavender.
Satureja rigidula Epling
- 06 Baccharis floribunda HBK. Shrub 4-8 ft, forming close
leafy mass. fls. white.
- W-1 07 Open cut Festuca Common but too old.
- 08 Stipa
- 09 Grassland Sporobolus Common
- 10 Along Ry. Brassica nigra (L*) Koch 4-6 ft.
- 11 Hillside Labiate Fls. rose-purple.
- 12 Grassland Stipa Common.
- 13 Hillside Eragrostis "
- 14 On bank ~~Chamaesyce orbiculata (HBK.)~~ *melanocarpa* prostrate.
- 15 Open cut Fls. pale rose.
Erodium cicutarium (L.) L'Her.
- W-1 16 " grassland Aristida Common but too old; all blades
curly.
- W-1 17 " " Bouteloua
- W-1 18 " " Eragrostis Common
- 19 Labiate Shrubby fls. lavender
- 20 Meibomia aff. uncinata 2-4 ft.; fls. rose & blue.

- W- / 20721 Open grassland Stipa Common
- 22 " " among Agropyron
cactus
- W- / 23 Along cut Paspalum
- 24 Malvastrum peruvianum L. Shrub 3-4 ft.; fls. rose-purple.
- 25 Salvia phoenicea HBK. 2-4 ft.; fls. scarlet.
- 26 Franseria artemisioides Willd. 3-6 ft.
- 27 Grassland Stipa Common
- 28 Iochroma loxensis Miers Shrub 4-6 ft.; fls. brown-purple.

Prov. Chimborazo, Huigra, road toward Cuenca, up hill to
south. July 20.

- 20729 Dry hill Woody vine, fls. white.
Paullinia lachnocarpa Benth.
- 30 Along irrigation stream Fls. yellow.
Hypericum uliginosum HBK.
- 31 Dry hill 2-3 ft.; fls. yellow.
Calea huigrensis Blake
- 32 Moist shady place, Fls. white with reddish throat.
Alonsoa caulialata R. & P.
- 33 Dry slope Shrub 8-15 ft.; fls. white.
Myrtaceae
- 34 " " Straggling 8-15 ft.; fls. lilac.
Eupatorium odoratum L.
- GW- / 35 **TECOMA AZALEAE FLORA (HBK.)** Tree 20 ft.; fls. yellow.
- 36 " thicket Shrub 10-15 ft.; fls. white
Baccharis floribunda HBK.
turning pinkish.
- 37 " " Shrub 8-12 ft.; fls. white.
Rubus adenotrichus Schlecht.
- VV- / 38 Bushy slope Melica
- 39 On tree Numerous leaves in a cluster;
Bromel
infl. single spike 2 ft.,
fruit only.

- 20740 Shady place 2 ft.; fls. yellow.
- W- / 41 Dry brushy slope *Fagelia* Chusquea Sterile, straggling, 8-15 ft.
- 42 Dry slope *Maytenus* Small tree or shrub 10 ft.; fls. green.
- 43 " grassy " *Stipa*
- 44 " thicket *Lasiacis* Aspect of *L. divaricata* with zig-zag shoots, but panicle branches pubescent, & pubescent at throat of sheaths; ligule visible, clambering among shrubs.
- 45 Dry slope *Farosela nova* (Ulbrich) Macbr. Shrub 2-3 ft.; fls. deep violet-purple.
- W- / 46 " thicket *Festuca*
- 47 " " *Passiflora rubra* L. Herb. vine; fls. creamy white inside, base of crown purplish, outside greenish with purplish veins; fruit rose-purple on angles & base, finely throughout.
- 48 " " On tree.
- W- / 49 *Orchid* " base of tree, fls. brownish-orange, center little darker

20750

10-15 ft, large shrub or tree,
fls. greenish white.

51 *Barnadesia*

Shrub straggling up to 12 ft.,
branches spiny at base of
branchlets, spines slender
in pairs or clusters (on
older parts); rays scarlet.

Hillside north of Huigra, along old Ry. grade July 27

20752 Grassy hillside

Elionurus

Bunch

W-1

53 " "

Andropogon

W-1

54 Moist thicket

Lesiacis

Clambering

55 " "

Begonia

15 ft.; stems devoid

of leaves, rather
woody, but fragile,
much pith; infl.
terminal; fls.
white, pink-tinged.

56 " "

Occhid

On tree, no bulb; fls.
orange-salmon.

W-1

57 Grassy bank

Stipa

58 " "

Eragrostis

W-1

59 " "

Trisetum

W-1

60 " "

Bromus

- 20761 Grassy hill Aristida Old blades flat & flexuous.
- W-1 62 Dirt cut Festuca
- W-1 63 Moist thicket In tree, fls. yellow with brown-red spots.
- 64 Dry hill *Lantana rugulosa* HBK. Shrub 3 ft.; fls. yellow.
- W-1 65 Grassy hill Aristida
- W-1 66 " " Andropogon
- W-1 67 Side of Cut "
- 68 " " " Muhlenbergia
- 69 Dry hillside Tree 20 ft.; fls. yellow.
- 70 " *Tecoma azaleaeflora* HBK. Shrub 10 ft.; fls. white.
- W-1 71 " *Tournefortia cornifolia* HBK. Stipa

Prov. Chimborazo Alausí

July 27

Dry slopes

- W-1 20772 Chaetochloa Common in dry regions of interior.
- W-1 73 Eragrostis

- W-1 20774 Cotapaxi Sta-
tion Kilo-
meter 414 Stipa

July 27

Prov. Carchi, La Rinconada, a ranch between Ibarra and

Tulcán

Aug. 10

- 20775 *Gynoxys buxifolia* (HBK.) Cass. Shrub
- 76 Ravine *Dryopteris* *galeata* (L.) Presl det. R. S. Smith 1978
- 77 Carduaceae "
- 78 *Brachyotum ledifolium* (Desr.) Triana " or small tree; calyx red, corolla yellowish.

20779 Vallea stipularis Mutis

Tree

80 Ravine Dryopteris *Thelypteris pedunculata (L.) Trimen*

W-1 81 **GENTIANA** **SEDI FOLIA** **H.B.K.**

W-1 82 Grassland Paspalum

83 Shady ravine Asplenium monanthes L. var.

84 " " Asplenium monanthes L.

85 Open slopes **Bidens humilis** Fls. yellow.

~~Bidens andicola decomposita Kuntze~~ **H.B.K.**

86 Solanum Large shrub or small tree; fls.

white.

87 Satureja nubigena (Benth.) Briq.

88 Open ground Cerastium Willdenovii HBK.

89 Carduaceae Shrub.

90 Pilea arguta (HBK.) Wedd. Somewhat shrubby.

91 Miconia papillosa Naud. Shrub fls. white.

92 Brachyotum alpinum Cogn. Shrub.

93 Satureja microphylla (Kunth) Briq. " fls. red.

W-1 94 Lamourouxia virgata HBK. " " purple.

96 Eupatorium azangaroense Sch.-Bip. Fls. white.

W-1 97 Calamagrostis

98 Festuca

W-1 99 Bromus

20800 Agrostis

01 Galium piliferum HBK. Fruit orange-red.

02 Oxalis pichinchensis Benth. Fls. yellow.

03 Pilea arguta (HBK.) Wedd. 20790?

W-1 20804 *STENOMESSEON* *HARTWEGII* Fls. orange red **LINDL.**

W-1 805 Thick spike, nearly leafless stem.

806 *Solanum* Small tree.

807 *Vaccinium floribundum* HBK.

808 *Aplopappus hypoleucus* Turcz.

W-1 809 Ibarra, along adobe wall

Provinces Imbabura & Pichincha, Olavalo to Malchingui

Aug. 12

Shrubby roadside

20810 *Pavonia spinifex* ^{*communis* (St. Hil.) Turck} ~~(L.) Cav.~~ Shrub; fls. orange-yellow.

NW-11 811 *Solanaceae* " " " red.

812 *Mimosa* ^{*minosopsis quitensis* Benth B.R} ~~*andina* Benth.~~ Small tree; fls. white.

813 *Phrygilanthus* ^{*Eugenioides* (H.B.K.) Eichl.} ~~*destructor* (HBK.) Eichl.~~ "

814 *Mimosa* *floribunda* Willd. " " " pink.

815 *Passiflora manicata* (Juss.) Pers. Vine; fls. scarlet.

816 *Parosela astragalina* (HBK.) Small shrub fls. blue.

817 Dry cliff *Cyclophorus americanus* (Hook.) C.Chr.

W-1 818 *Agropyron*

819 Dry bank *Aegopogon*

820 *Alnus ferrugineus* HBK. Tree 25 ft.

821 *Duranta benthani* Briq. Shrub; fls. lilac

822 *Oreopanax* *ECUADORIENSE* SEEM Tree 25 ft.

823 *Stenomesson aurantiacum* Herb. Fls. orange-red.

824 " white.

825 *Chusquea* Straggling or clambering.

- 20826 *Salvia tortuosa detonsa* Epl. Shrub; fls. scarlet.
- W-1 827 *Calamagrostis*
- W-1 828 *Agrostis*
- 829 *Bromus*
- 830 Damp shady place *Chaetochloa*
- 831 *Valota*
- 832 " " " *Paspalum*
- W-1 833 Dry hills *Chaetochloa* Common
- 834 " slope *Sporobolus*
- 835 " " *Chamaesyce orbiculata* (HBK.)
- 836 " " *Amaranthaceae* *Alternanthera porrigens* (Jacq.) Wtze.
- 837 " " *Mimosa* Small tree; fls. yellow.
- 838 ~~*Alternanthera*~~ Dry valley On trees.
- 839 " *Tillandsia recurvata* L. Shrub 10 ft.
- 840 NW-1 *Sphacele intermedia* Epling Small tree.
- 841 *Buddleia americana* L.
- 841 *Solanaceae* Shrub, fls. bluish white.
- W-1 842 Cactus to represent photo.
- 843 *Caesalpinia pectinata* Cav. Small tree, fls. yellow & orange red.
- 844 *Coursetia dubia* DC. Shrub.

Prov. Pichincha, Malachingui to Pomasqui wooded hillsides

Aug. 13

- W-1 20845 *Verbesina arborea* HBK. Shrub
- 846 *Columellia crispa* HBK. " fls. yellow.
- 847 *Eupatorium glechnophyllum* Less. " white
- 848 *Phrygilanthus corymbosus* (Dietr.) Small tree; fls. scarlet.
Eichl.

W-1 20849 Rocky slope *Plantago linearis* 3570 M.

H.B.K.

- | | | | | |
|---------|-------------------------------|---------------------------------------|---|---|
| 850 | " | " | " | " |
| | | Polystichum sodiroi Chr. | | |
| 851 | " | " | " | " |
| | | Baccharis genistelloides (Lam.) Pers. | " | " |
| 852 | " | " | " | " |
| | | Juncoides racemosum (Desv.) Kuntze | " | " |
| W-1 853 | " | " | " | " |
| W-1 854 | " | <i>Juncoides giganteum</i> | " | " |
| W-1 855 | " | " | " | " |
| | | Cortaderia | | |
| 856 | Bank | Agropyron | Rhizomes. | |
| 857 | Open places | Agrostis | Small tufts. | |
| 858 | Liabum nonoense Hieron. | | Shrub rays white. | |
| 859 | Rocky slope | Orchid | Fls. pale yellow. | |
| 860 | Gunnera pilosa Kunth | | Aspect of pie-plant; blades 2-3 ft. in diam., circular in outline, but lobed & cleft. Infl. 18 inches long. | |
| 861 | Cleome glandulosa R. & P. | | Small tree. | |
| 862 | | Cortaderia | 5-8 ft. | |
| 863 | | Neurolepis? | 5-8 ft. loose clumps or patches. | |
| W-1 864 | | Bromus | | |
| 865 | | Festuca | | |
| W-1 866 | Lepidium bipinnatifidum Desv. | | | |
| 867 | Oxalis lotoides HBK. | | Depending from bank. | |
| 868 | Barnadesia | | Prickly shrub, fls. light purple. | |

20869 *Verbesina arborea* HBK.

Shrub

W-1 870 *Cremolobus peruvianus* DC.

W-1 871 *Calceolaria crenata* Lam. (det. Pennell)

W-1 872 *Carex jamesonii* Boott

873 *Solanum*

Small tree

874 Rocky bank *Carduaceae*

875

Calamagrostis

876 Cliff *Orchid*

877 " *Lycopodium*

878 *Gaultheria insipida* Benth.

Small shrub

879 *Cavendishia acuminata* (Hook.)

Shrub, fls. red with yellow
Hemsl. tip.

880 *Manettia echitidea* Standl.

Vine, fls. white.

881 *Neonelsonia acuminata* (Benth.) C&R 8 ft.

GW-11

882 *Eupatorium lamifolium* HBK. Fls. lilac-blue.

883 Cliff *Elaphoglossum crassipes* (Hier.) Diels

884 *Gesneriaceae*

Shrub, fls. red.

885 *Liabum coriaceum* Hieron.

"

886

Stipa

887 *Vernonia pycnantha* Benth.

"

888 *Saurauja Spraguana* Busc.

Small tree.

889 *Fallicourea lineata* Benth.

Shrub, fls. blue.

890 *Duranta triacantha* Juss.

"

"

" lilac.

W-1

891

892 Shady place *Euphorbia fraseri*

893

Fls. blue.

- 20894 *Tibouchina mollis* (Bonpl.) Cogn. Shrub; fls. pink purple.
895 *Miconia crocea* (Desr.) Naud. " " white.
896 *Cuscuta foetida* HBK. On herbs and shrubs, fls. and
infl. shining white.

- W-1 897 *Eragrostis*
W-1 898 *Stipa*
W-1 899 *Polypogon*
W-1 900 "
W-1 901 *Stipa*
W-1 902 *Eragrostis*
W-1 903 *Andropogon*
W-1 904 *Eragrostis*
W-1 905 *Notholcus* Common escape from cult.

20906-908 blank

- Prov. Carchi, Paramos, 12 miles west of Tulcán Aug. 10.
20909 Among bunches of Fls. yellowish-green.
grass *Tetragonanthus Meyeri-Johannis* (Gilg)
20910 *Loricaria thuyoides* (Lam.) Sch.-Bip. Bush 2-4 ft.
911 Eastern edge of *Culcitium rufescens* H. & B.
paramo. No trunk, cottony white, fls.
exceeding leaves.

20912 Covering large areas, miles in extent, the dominant
Espeletia grandiflora H. & B. *hartwegiana* A. C. Smith
 plant; forms trunk as much as 15 ft. tall, the old
 leaves in a mass below the terminal tuft; flowers
 shorter than leaves & in their axils; rays yellow,
 disk dark brownish yellow. (See photo). Spanish
 name "Freilijón", applied also to 20911.

20913 Among 20912, boggy place. *Rynchospora macrochaeta* Steud.

914 " " *Calamagrostis* Large tufts

915 " " *Puya hamata* ~~ined~~ Mostly scattered; inflorescence
 8-12 ft., woolly, covered
 with spiny bracts; fls. blue-
 indigo in round heads that
 make up the columnar spike-
 like inflorescence (see
 photo) blades 3-5 ft. Spanish
 name Achupella.

916 *Calamagrostis* Large bunch grass. Common among
 20912.

917 Among bunches of grass with 20912.

Lachemilla galioides (Benth.)

918 *Calamagrostis* Large bunches among 20912.

W-1 919 *Poa*, " " " "

920 *Agrostis* " " "

-61-

20921 Calamag-Agrost? Culms few or single, among
20912.

W-1 922 Bromus Panicle drooping among 20912.

923 Mats on sides of bunches of grass among 20912

924 Mats on base of bunches of grass; fls. yellow " "

Viola glandulifera Hooker

925 Scattered among bunches of grass in 20912.

Castilleja

926 " " " " " " " "

Leontopodium gnaphalioides (HBK.) Hieron.

927 Bog in cover of 20912; infl. whitish, only flowering portion

above ground. At base is one branch, the infl., and

another with leaves.

928 Small shrub scattered among bunches of grass in 20912. fls.

Carduaceae

yellow.

929 Boggy place in 20912

Fls. orange-yellow.

Hypericum strictum L.

930 Bog in 20912

Fls. purplish white.

Erigeron pellitus (HBK.) Wedd.

931 " " " "

" greenish white.

Eryngium humile Cav.

932 Mats among bunches of grass in 20912.

Scirpus inundatus Poir.

933 Bog in 20912 *Gentiana nummulariifolia* Griseb.

934 Among bunches of grass in 20912. *Ranunculus praemorsus* DC.

W-1 935 Bog in 20912.

W-1 936 On base of bunch of grass in 20912.

W-1 937 " " " " " " " " fls. pink.

Geranium cucullatum HBK.

Prov. Carchi, La Rinconada, ranch between Ibarra and Tulcán.

Aug. 11.

- W / 20938 Weed in yards Festuca
- 939 Small tree, common along fences and ditches, apparently
Datura rosei Safford
not indigenous; fls. pendulous, dull orange red
toward mouth, sometimes yellow or orange (see photo).
- 940 Thickets Shrub; fls. white.
Viburnum triphyllum Benth.
- 941 On trees. Fls. pink spotted with dark purple (photo).
Orchid
- 942 Bog in mts. 2-3 ft.; fls. blue (Collected
Lupinus *alopecuroides* Desr. by Sr. Tamaya's men) (see
Retired by C P Smith photo).
- 943 *Colignonia parviflora* HBK. Straggling 8-10 ft.; fls. and 1
ENDL. or more leaves white.
- To Juan 944 Fungus on 20943
- 945 On tree Leaves mostly purple.
Tillandsia complanata Bent.
- 946 Carduaceae Shrub 15 ft; fls. yellow.
- 947 Solanum Tree 20 ft.; fls. blue.
- 948 Carduaceae Herb 10-12 ft.; fls. yellow.
- 949 Miconia salicifolia (Bonpl.) Naud. Shrub 12-15 ft.
- 950 Bog in mts. (Brought in by Sr. Tomaya's men); fls. red
Ranunculus Guzmannii Humb.
outside, yellow within.
- 951 Chuquiragua microphylla HBK. Shrub 5-10 ft.; fls. and heads
light salmon.

- 20952 *Siphocampylus umbellatus* (HBK.) Don Shrub or tree up to 20 ft., long
upright branches; fls. pale
yellow.

Prov. Carchi, wooded hills south of Tulcán Aug. 10

- 20953 *Siegesbeckia Mandonii* Sch.-Bip.

- 954 *Viola humboldtii* Tr. & Pl.

- 955 *Gentiana stellarioides* Griseb. Fls. blue.

W-1 956

- 957 *Rubus bogotensis* HBK.

W-1 (958 Trisetum

- 959 *Muhlenbeckia tamnifolia* (HBK.) Woody vine.
Meisn.

W-1 960

- 961 ~~Eraglia~~ *Calceolaria crenata* Lam. (SWP)

- 962 *Gnaphalium graveolens* HBK.

- 963 *Coriaria thymifolia* H. & B. Straggling shrub or vine, fruit
purple.

- 964 *Lamourouxia virgata* HBK. Shrub; fls. light purple.

- 965 *Stachys repens* Miq.

- 966 *Geranium quinquelobum* Wedd.

W-1 967 Paspalum

- 968 *Vicia graminea* Sims

- 969 *Polystichum*

- 970 *Relbunium hirsutum* (R. & P.) Schum.

- 971 *Alchemilla procumbens andina* Perry

W-1 972 Calamagrostis

- 973 *Satureja Brownei* (Benth.) Brio.

W-1 20974

Bromus

975

Stipa

976 Lachemilla orbiculata (R. & P.) Rydb Mats.

977 Baccharis floribunda HBK.

978 Hypericum hartwegi Benth.

979 Hypochaeris sessilifolia HBK. Acaulescent; fls. white.

980 Eupatorium cotacachense Hieron. Shrub.

981 Oxalis rufo-pilosa Schult. Mats.

982 Lobelia

983 Eupatorium salicinum Lam. Shrub.

984 Pernettya pentlandii DC.

985 Rubus glaucus Benth.

986 Lupinus *carchiensis* C.P.Sm. (det. C.P. Smith)

987 Vaccinium floribundum HBK. Fls. pink.

988 Orthosanthus chimboracensis (HBK.) Baker

989 Paspalum

990 Linthostachys tomentosa (Benth.) Epl.

991 Plagioclinus prostratus Benth. Tansy-like mats

992 Carduaceae Shrub

993 Baccharis teindalensis HBK. "

W-1 994

Stipa

995 Baccharis teindalensis HBK. "

996 Eupatorium azangaroense Sch.-Bip.

997 Achyrocline trianae Klatt

998 Oenothera multicaulis tarquensis (HBK.) Munz & Johnston

999 Bidens humilis HBK.

- 21000 *Passiflora mixta* L.f. Vine; fls. salmon-pink.
- 001 ~~Carduaceae~~ *Gynoxys fuliginosa* (HBK.) Cass. Shrub; fls. yellow. Det. E. P. Killip
- 002 *Eupatorium origanoides* HBK. "
- SW-11 003 "
- 004 *Monnina* " fls. blue.
- 005 *Umbelliferae* *Arracacia moschata* (H.B.K.) DC. Det Mathews
- 006 *Solanum egranulosum* Bitt. (Det. Mathews)
- 007 *Pentstemon gentianoides* Don
- 008 *Polypogon*
- 009 *Brachypodium*
- 010 *Carex hankana* Presl (Det. MacKenzie)
- 011 *Trisetum*
- 012 *Barnadesia spinosa* L.f. Prickly shrub; fls. pink-purple.
- 013 *Gentiana cerastoides* HBK.
- 014 *Gentiana rupicola* HBK.
- W-1 015 *Geranium imbalurae* Knuth
- 016 *Hydrocotyle bonplandi* Rich. *glabra* Mathews
- 017 *Geum chilense*
- W-1 018 *Bromus*
- W-1 019 *Torresia*
- 020 *Bidens humilis* HBK. Fls. yellow.
- 021 *Agrostis*
- 022 *Geranium*
- 023 *Vicia graminea* Smith

- 21024 Vicia -
- 025 Acaena elongata L.
- 026 Aegopogon
- 027 Bromus
- 028 "
- NW-11 029 Rubus ostrinus Focke Creeping
- 030 Carex bouplandii var. robustior Rukenth.
- 031 Calamagrostis
- 032 Viola tricolor L.
- 033 Equisetum bogotense HBK.
- W-1 034
- GW-11 035 Erigeron bonariensis L.
- W-1 036 Poa
- NW-11 037 Stipa
- W-1 038 Bromus
- NW-11 039 "
- 040 Trisetum
- 041 Briza
- W-1 042 Grass
- 043 Lobelia
- 044 Valeriana alophis Graebd. Small shrub; fls. white.
- 045 Agrostis
-

Prov. Pichincha, Mt. Pichincha near Quito. Alpine region

(3900-4500 M)

Aug. 17, 1923.

- 21046 *Werneria pumila* HBK. Fls. yellow
- 047 *Juncoides peruvianum* (Desv.) Kuntze
- 048 *Calamagrostis*
- 049 *Cerastium floccosum* Benth.
- 050 *Lycopodium crassum* Willd. Plant pink.
- 051 *Nototriche pichinchensis* (H&B) Hill Fls. blue.
- 052 *Valeriana bonplandiana* Wedd. Small shrub; fls. white.
- 053 *Agrostis*
- 054 *Culcitium rufescens* H&B
- 055 *Culcitium nivale* H&B Head drooping.
- 056 *Lupinus nubigenus* (Kth. det. Smith) Fls. blue.
- 057 *Castilleja nubigena* HBK.
- 058 "
- 059 *Trisetum*
- 060 *Werneria humilis* HBK. Fls. white.
- 061 *Baccharis cespitosa* (R. & P.) Pers. Mats.
- 062 *Gentiana nummulariifolia* Griseb.
- 063 *Agrostis?*
- 064 *Eudema nubigena* H. & B.
- 065 Thick sike with rosette on sub-
terranean branches.

W-1 21066

- 067 *Astragalus geminiflorus* HBK.
- 068 *Hypochaeris setosa* (Wedd.) Acaulescent; fls. yellow.
- 069 *Werneria nubigena* HBK. " " white.
- 070 *Hypochaeris setosa* (Wedd.) " " "
- 071 *Chuquiragua insignis* HBK. Shrub, 3-6 ft.
- 072 *Plantago sericea* R. & P.
- 073 Large cushions.
- 074 *Geranium multipartitum* Benth.
- 075 *Gentiana sedifolia* HBK.
- 076 *Lupinus*
- 077 *Culcitium reflexum* H. & B.
- 078 *Azorella pedunculata* (Spreng.) Wedd. " "
- 079 " " " " " "
- 080 *Gentiana foliosa* HBK.
- 081 *Scroph*
- W-1 082 *Agrostis*
- W-1 083 *Poa* Bunch grass
- 084 *Cerastium imbricatum* Benth.
- 085 *Calamagrostis*
- 086 *Baccharis cespitosa* (R. & P.) Pers.
- 087 *Diplostephium rupestre* (HBK.) Wedd. Shrub, 3-5 ft.
- 0875 *Lucilia pusilla* HBK.

Prov. Carchi, wooded hills south of Tulcán Aug. 10

21088 *Rubus nubigenus* HBK.

SW-11 089 *Baccharis floribunda* HBK.

090 *Eupatorium salicinum* Lam. Shrub

W-1 091

W-1 092 *Stipa*

W-1 093 *Agropyron*

W-1 094 *Festuca*

095 *Geum chilense* *GEUM PERUVIANUM* Focke. (= 21017)

096 *Cuscuta grandiflora* HBK.

097 *Castilleja*

098 *Eugenia CALCEOLARIA SAXATILIS* HBK. Twining vine; fls. scarlet.
(DET. PENNEL)

099 *Bomarea*

Guayaquil

Aug. 25

W-1 21099 $\frac{1}{2}$ *Phragmites*

Prov. Oro, between Machala and Puerto Bolívar

Aug. 26, 1923.

W-1 21100 Swamp near P. Bolivar. Rhizophora. *Mangle L.*

W-1 101 Border of Swamp *Sporobolus*
near P. Bolivar.

W-1 102 *Gossypium peruvianum* (Cotton) Well established and rather abun-
Car? dent in the low brush.

W-1 103 Along track *Sporobolus*

104 Brackish swamp *Avicennia nitida* Jacq.

21105 On shrubs near swamp *Tillandsia disticha* HBK.

106 " " " " Inflorescence pale or whitish.

Tillandsia multiflora Benth.

W-1 107 *Hylocereus* sp. Cactus Climbing, not common.

W-1 108 " " Common.

Cephalocereus tweedianus B. & R.

W-1 109 *Opuntia* " fruit reddish

110 *Solanum* Shrub 5-10 ft; fls. yellowish

Capparis crotonoides (HBK.) white.

111 *Lycium tweedianum* Griseb. " 5-8 ft. cited by C. L. Hitchcock

112 *Cryptocarpus pyriformis* HBK. " with vine like branches.

113 *Vallesia dichotoma* R. & P. " 3-5 ft.

114 *Prosopis* Common back of swamp.

Prov. Oro Between Santa Rosa & La Chorita Aug. 27

Along trail

21115 *Gesneraceae* 5 ft.; fls. red.

116 *Acanth* Erect, 3 ft.; fls. scarlet.

117 *Aphelandra tetragona* (Vahl) Nees " " " "

W-1 118 *Xiphidium coeruleum* Fls. white, berries red. Aubl.

119 *Cephaelis tomentosa* (Aubl.) Vahl 4-8 ft.; bracts red.

120 On trees *Aechmea pyramidalis* Benth.

Besleria
121 *Clerodendron oncogastria* Haust. Shrub; fls. scarlet.

W-1 122 *Cleome gigantea* L. 10 ft.; fls. pale olive-green or yellowish.

123 *Gynandropsis trichopus* Benth. 8 ft.; fls. scarlet.

124 *Eupatorium vitalbae* Benth. 6 ft.; fls. pink.

- 21125 *Turretia lappacea* (L'Her.) Willd. herb. vine; fls. scarlet.
- W-1 126 Damp woods *Olyra* Branching.
- 127 *Acanth* Shrub; fls. pale-scarlet.
- 128 *Loasa triphylla aequatoriana* Herb 5-8 ft, stinging hairs,
Urb. & Gilg. viscous; fls. white with
salmon eye.
- 129 *Carduaceae* Vine; fls. salmon-scarlet.
- W-1 130 *Lasiecis*
- W-1 131 "
- W-1 132 On trees *Geschmea angustifolia* P. & E. (Det. L. B. Smith)
- 133 Wet woods *Stromanthe tonckat* (Aubl.) Eichl.
- W-1 134 *Olyra*
- W-1 135 On tree *Guzmania monostachia* (L.) Rusby
- W-1 136 Moist bank *Ichnanthus*
- W-1 137 *Chaetochloa*
- W-1 138 *Paspalum*
- 139 *Eucrosia morleyana* Rose Fls. orange-salmon-yellow.
- 140 *Trixis divaricata* Spreng. 6 ft. fls. greenish
- 141 *Malvaviscus arboreus* (Cav.) Sw. Straggling shrub up to 15 ft.,
fls. scarlet.
- 142 (*Abutilon*) *Pseudobastardia crispata* (L.) Hapf Herb 5-10 ft.; fls. scarlet.
- 143 *Bauhinia grandiflora* Benth. Shrub or tree 4-15 ft.; fls.
white.
- 144 Dry brushy land, *Verbesina pentantha* Blake Herb 10 ft.; fls. white.
- 145 *Eupatorium roseorum* Robins. 8-10 ft.; fls. lilac.
- W-1 146 *Lasiecis*

21147 *Jatropha*

Straight, stiff leafless trunks,

with pink-scarlet infl.

148

Croton

glabellus Z. (! *Guajat*)

Shrub 8 ft.

149

Bignon

" 12 ft.; fls. magenta with
pale eye.

150

Oxalis loxensis R* Knuth

" 8 ft.; fls. yellow.

W-1

151

Vernonia scorpioides (Lam.) Pers.

152

Jacquemontia nodiflora (Desv.) G*Don Vine; fls. white.

153

Cordia guayaquilensis A.DC.

Shrub, 10 ft.; fls. white.

154

Hibiscus brasiliensis L.

" " " magenta.

Prov. Oro. Between La Chorita & Portovelo Gold mine Aug. 28,
1923.

21155 Along stream

Triplaris guayaquilensis Wedd.

Tree 30 ft. fruiting infl. red

Fernán Sánchez.

W-1

156

Bank along road *Pennisetum*

W-1

157

Dry open grassland *Arundinella*

158

Cantua quercifolia Juss.

5-8 ft.; fls. white.

W-1

159

Tillandsia hamaleana E. Morr. Det. L. B. Smith

160

Blakea quadriflora Gl.

Tree, fls. white.

161

Begonia

Vine, climbing tree trunk by
rootlets.

W-1

162

On log *Peperomia choritana* Trel.

W-1

163

Mikania lanceolata Heiron.

Climbing, fls. white.

- 21164 Solanaceae Shrub; fls. white.
- 165 Graffenrieda Tree; fls. red.
- 166 Psammisia ecuadorensis Hoer. " calyx and pedicel red,
corolla pink-salmon, tip
whitish.
- 167 Marcgravia rectiflora Tr. & Pl. Tree or shrub with vinelike
branches.
- 168 Fuchsia *macrostigma* Bth. (! King) ~~SPECTABILIS Hook.~~ Erect, partly shrubby; fls.
scarlet.
- 169 Centropogon planchonis Zahlbr. " partly shrubby; fls.
scarlet.
- 170 Renealmia Leaf 3-5 ft; infl. basal,
calyx scarlet, corolla
white.
- 171 Shrub 8 ft.; fls. white.
- 172 " " " "
- 173 Liabum sagittatum Sch. Bip. " 6 ft. " yellow.
- 174 Bomarea pardina Herb. Twining, climbing high, a
single drooping infl. at
end; calyx crimson-scarlet;
corolla white with dark
purple spots.
- 175 Viburnum ? Shrub, mostly without leaves.
- 176 Gonzalagunia sororia Standl. " corolla white.
- W-177 Oplismenus
- 178 Piper zarumanum Trel. " 6 ft.

21179 On tree *Guzmania fastuosa* André

Inflorescence 2 ft. bracts scarlet with green tips; fls. white.

W-1 180 Lasiacis

181 Moist bank Axonopus

182 Anacard

Tree; fls. whitish.

183 *Palicourea stipularis* Benth.

Shrub 10-15 ft.; fls. purple.

W-1 184 Lasiacis

185 Scroph

" 4 ft.; fls. purple-blue.

186 *Palicourea stipularis* Benth.

" 15 ft.; fls. pink.

W-1 187 *Miconia capitellata* Cogn.

"

188 *Miconia* sp

" 10-15 ft.

W-1 189 Moist open ground *Paspalum*

W-1 190 On tree trunk
Pitcairnia exscapa Hook.

Fls. scarlet (same as Huigra plant on rocks).

W-1 191 Open moist grassland *Panicum*

W-1 192 Moist cliff *Calamagrostis*

W-1 193 " bank Axonopus

194 *Psammisia ulbrichiana* Hoer.

Tree; fls. scarlet, corolla cream.

GW-1 195

Small shrub; fls. blue.

W-1 196 Lasiacis

W-1 197 Shrub

198 *Norantea anomala* HBK.

Tree; fls. scarlet.

199 Moist bank *Ichnanthus*

- 21200 Moist bank Panicum
- W-1 201 *Besleria modica morton (type)* Erect shrub; 3 ft.; fls. pale red.
- 202 Ichnanthus
- 203 *Tibouchina oroensis* Gl. Shrub 6-15 ft.; fls. purple-blue.
- 204 Moist bank Paspalum
- W-1 205 Isachne
- W-1 206 Paspalum
- W-1 207 *Eupatorium laevigatum* " Lam.
- W-1 208 *Liabum hastifolium* P. & E. " fls. yellow.
- 209 *Eupatorium inulifolium suaveolens* " 8 ft.; fls. white.
- W-1 210 " (HBK.) Hieron.
- 211 Moist bank Panicum Much branched.
- 212 " " "
- 213 " " Ichnanthus
- 214 *Tibouchina laxa* (Desr.) Cogn. Shrub 5 ft.; fls. purple-blue

Prov. Oro Portovelo Gold Mine Aug. 30 River valley.

- 21215 Near stream Woody vine; fls. rose.
- 216 " " tree 40 ft. (a) fls (b) fruit (*Licaria limbosa* R. & P. Kosterman
~~Securidaca coriacea Bonpl.~~ *Net. Kostermans*)
- 217 On tree along river *Acroclididium acuminatum* Rose Woody vine; fruit scarlet.
- 218 " " " " *Paullinia fuscescens* HBK. panicle about 12 ft. long
- 219 " " " " *Tillandsia secunda* HBK. *minima* HBK. Det. L. B. Smith
- 220 " " " " *Tillandsia triglochinosides* Presl
- Orchid

- W-1 21221 On tree, dry hill
- SW-11 222 " " *Tillandsia juncea* LeC.
- 223 Dry hill Tree 30-40 ft. no leaves.
- 224 On tree, dry hill; Orchid Fls brilliant rose, the lip
darker with white border.
- 225 (burned)
- 226 Dry hill Tree 20-30 ft.; fruit yellow.
- 227 (burned)
- 228 Dry hill Large tree leafless, fls. bright
Cochlospermum hibiscoides (Willd.) Kunth yellow. "Polo-polo"
- SW-11 229 Fabaceae *Clitoria brachystegia* Benth. Small tree, mostly leafless; fls.
lilac with red stripes in
center.
- 230 Along river Woody vine, fls. white, fading
Phaseolus adenanthus G.F.W. Meyer cream or yellowish.
- 231 Dry slopes Shrub or small tree; fls. white.
Solanum Mandonis Huerck. & Muell. Arg. " " " " blue and
- 232 Along river Bignon purplish or rose-lilac.
- W-1 233 Dry hill *Phoradendron piperoides* (HBK.) Griseb. Det. E. P. Killip
On tree.
- 234 " " Hanging from tree.
- Rhipsalis micrantha (HBK.) DC.
- 235 (burned)
- 236 Dry hill Bignon Woody vine, fls. pale scarlet.
- 237 " " Parasite on tree; fls. scarlet
Psittacanthus cupulifer (HBK.) Eichl. at base; cream above.
- 238 " " Tree 40 ft.
Triplaris guayaquilensis Wedd.
- 239 " " On tree.
Orchid

- 21240 Dry hill On bark of tree.
Peperomia nummularifolia pubescens C.DC.
W- / 241 " " " tree; fls. greenish white
with purple spots, the lip
white with yellowish cen-
ter.
- 242 (burned)
- 243 Dry hill Tree 20 ft. with stubby branches;
Urera baccifera (L.) Gaud. no leaves.
- 244 (~~burned~~) ? *Tillandsia multiflora* Benth.
- 245 Dry hill Bromel On tree
- 246 " " " "
- 247 " " *Tillandsia triglochinosides* Presl " "
- W- / 248 → *Tillandsia barclayana* Baker
lateritia André f. " Rusby L. B. Smith
- W- / 249 *Catopsis vitellina* (L. K. O.) Baker " "
- W- / 250 *Guzmania monostachya* f. " Rusby L. B. Smith
- 251 On hill at mine *Ananropogon* Introduced?
- W- / 252 " " " " *Leptochloa*
- W- / 253 " " " " *Panicum*
- W- / 254 " " " " *Axonopus*

Along river below Portovelo. Aug. 31.

- W- / 21255 On tree.
- W- / 256 Boggy place *Panicum*
- W- / 257 " " *Paspalum*
- 258 Surface of pools *Lemna*
- 259 Dry hill *Tillandsia pruinosa* Sw. On tree.
- W- / 260 " " *Andropogon* Common

W-1 21261 Dry hill Andropogon Common.
 W-1 262 " " Imperata
 W-1 263 " " Andropogon
 264 Common along river; fls. white. Inga

 hillside at mine

Sept. 1

21265 Centrolobium ochroxylon Rose Tree 40 ft. or more, fruit only.
 "Amarillo" a good mine timber.

W-1 266 Chaetochloa
 W-1 267 Axonopus
 W-1 268 Eragrostis
 W-1 269 Paspalum
 W-1 270 Trachypogon
 W-1 271 Andropogon
 272 Isandrinia (Cassia) Small tree; fls. yellow.
 273 Chaetochloa
 W-1 274 Andropogon

 The trip from Portovelo to Loja (nos. 21275 to 21439) 3 days
 on horses with 2 cargo animals and 2 helpers. No drying till Loja
 was reached. Prov. Oro Portovelo to El Tambo. Sept. '2.

W-1 21275 Dry wooded slopes Terrestrial; fls. rose.

276 Erythrina *smithiana* Kruckhoff Tree, leafless; fls. scarlet.

- 3W-1 21277 On tree, fls. pale salmon.
- 278 Andropogon
- 279 Begonia Fls. white.
- W-1 280 Olyra
- 281 Saurauja tambensis Killip Shrub; fls. white.
- 282 Bignon Tree; fls. yellow with brown stripes.
- 283 Scleria bracteata Cav.
- W-1 284 Arundinella
- 285 Icacorea guianensis Aubl. Shrub; fls. white.
- N W-1 286 Meibomia cajanaefolia (HBK.) Kuntze
- 287 Myrtaceae Tree; fls. white.
- 288 Imperata
- W-1 289 " " " or greenish.
- 290 Bignon Shrub, leafless; fls. yellow.
- 291 Malpigh Tree; fls. yellow.
- 292 *Millea ecuadorica* Standl. (21235)
- W-1 293 Aristida
- W-1 294 "
- W-1 295 Woody vine; fls. blue.
- 296 Eupatorium amygdalinum Lam. 1-3 ft.; fls. rose.
- 297 Triplaris guayaquilensis Wedd. Fls. greenish white, fruit bright red; "Fernan Sanchez"

21298	Orchid	(21225)
299	Orchid	On tree
W-1 300	Panicum	
NW-11 301	Begonia	(cf 21279)
W-1 302	"	
W-1 303	Ichnanthus	
304	Tillandsia umbellata André	On tree
W-1 305	Aristida	Perennial, old blades curled.
W-1 306	Paspalum	
307	Tournefortia bicolor Sw.	Shrub; fls. white.
W-1 308	Nectandra lineatifolia (R. & P.) Mez	Tree; fls. yellow-green.
W-1 309	Panicum	
W-1 310	Pennisetum	
311	Euplassa occidentalis Johnston	" " white.
312	Lycopodium cernuum L.	
W-1 313	Andropogon	
W-1 314	Dry hills	"
315	Miconia macrotis canescens Gl.	Small tree 20 ft; fls. white.
W-1 316	Panicum	
317	Siparuna quadrangularis A.C.Sm.	4 ft.; fls. orange-yellow
318	Cordia alliodora R. & P.	Shrub; fls. white.
319	Securidaca coriacea Bonpl.	Tree; fls. rose.
W-1 320	"	
321	Miconia argyrophylla DC.	" " white.

Prov. Loja El tambo to La Toma, Sept. 3.

21322 River bottom

Jatropha curcas L.

Shrub 6 ft.

323 *Tillandsia Hitchcockiana* L.B.Sm.

On tree; fls. purple.

324 *Anneslia floribunda* Rose

Small tree; fls. purple.

325 ~~*Dendropogon*~~ *TILLANDSIA*

On tree.

usneoides L.

W-1 326 *Opuntia macbridei* B. & R.

Cactus common at lower desert

altitudes; fls. crimson.

327 *Mayepea pubescens* (HBK.)

Tree 10-20 ft., mostly without

leaves or with young leaves;

very profusely flowering; fls.

pink, conspicuous on the hill-

sides at 1200-1800 M., but

very scattering, 3 or 4

trees to square mile.

328 *Tillandsia*

On tree

329 Orchid

" " fls. rose.

330 *Capparis scabrida* HBK.

Small tree, common in river

bottom; fls. (stamens) white;

calyx & corolla dull brown.

331 River bottom

Cercidium praecox (R. & P.) Harms

Small tree or shrub, leafless,

fls. yellow.

332 " "

Jatropha nudicaulis Benth.

Shrub 3-5 ft. young leaves; fls.

scarlet-vermilion.

- 21333 Fabaceae Small tree; fls. white.
- 334 Tillandsia coerulea HBK. On tree; fls. lilac blue.
- 335 Side of cliff Andropogon
- 336 Grassy slope Axonopus
- 337 Tree
- 338 Embothrium grandiflorum Lam. Shrub; fls. white, rose tinged
"Cucharilla".
- 339 Miconia sp. Large shrub; fls. white with
few brown spots.
- 340 *Erythrina edulis* Tr. Fabaceae Leafless tree; fls. scarlet.
- 341 Eupatorium buddleaefolium HBK. Shrub 8 ft.; fls. lilac-blue.
- 342 Belostoma Lobbii Seem. Tree; fls. crimson.
- 343 Jatropha Shrub, single stem or with few
stubby branches, leafless;
fls. brownish yellow.
- 8 W 11 344 *Tillandsia hamnoleana* E. Morr. On tree, large basal cluster;
fls. bright rose.
- 345 Mauria heterophylla HBK. Tree; fls. red.
- 346 Solanaceae *ecuadorensis* Bitt. Shrub; fls. white.
- 347 Labiatae 2-4 ft.; fls. dark violet.
- 348 Eupatorium longipetiolatum arbusculare Robins.
- W 1 349 *Indigofera microcarpa* Desv. Fls. salmon-vermillion.
- 350 Field in small valley Fls. canary yellow.
Oenothera fusiformis Munz & Johnst.

- 21351 On tree Infl. lilac; fls. white, upper
Tillandisa straminea HBK. half of livid purple, fragrant.
- 352 Hedges and borders of fields Fls. white. *Furcraea andina* Tref.
 Bromel Det. E. P. Killip
- W- / 353 Grassy slope Aristida
- 354 *Streptosolen Jamesonii* Miers Shrub 2-6 ft.; fls. salmon-orange.
- 355 ~~Labaceae~~ *Machairium longistipitatum* (Det. / *doelme*) Tree, standard green, other
 petals white.
- 356 On tree *Tillandsia tequendamae* Andre. (Det. J. B. Smith) Det. E. P. Killip
 Bracts red or yellow.
- 357 " " *Tillandsia multiflora* Bth. Infl. reddish; fls. white.
- 358 " " *Tillandsia sinuosa* L.B.Sm.
- 359 Anacard Tree; fls. white.
- 360 " " *Tillandsia floribunda* HBK. fls. purple.
- 361 Bignon Tree; fls. violet-blue.
- 362 Myrtaceae Large shrub; fls. white.
- 363 *Nectandra Laurel* Kl. & Karst. Tree; fls. white.
- 364 On tree Orchid Fls. cream.
- 365 *Weinmannia descendens* Diels Tree.
- 366 *Roupala brachybotrys* Johnston " fls. white.

Prov. Loja. Between La Toma and Loja Sept. 4

21367 Moist bank. Carduaceae

368 On tree *Guzmania gloriosa* Andre
~~Bromel~~ Tips of bracts red.

W- / 369 Moist bank Poa

- 21370 *Loasa loxensis* HBK. Stinging; fls. red.
- 371 *Euphorb* Shrub 6 ft.; fls. green.
- W- / 372 *Vaccinium reflexum* Hook.f. Fls. rose.
- 373 *Centronia tomentosa* Cogn. Small tree; fls. red.
- 374 *Oreopanax Andreanum* Marchal Tree; leaves leathery.
- 375 Large shrub; fls. white.
- 376 *Centropogon erianthus* (Benth.) B&H. Shrub; fls. scarlet.
- 377 *Valeriana Hieronymi* Graebn. Small shrub; fls. white.
- 378 *Orchid* Terrestrial.
- W- / 379 Moist bank
- W- / 380 " " *Agrostis*
- W- / 381 " " *Stipa*
- W- / 382 " " *Eryngium moritzii* Wolff
- W- / 383 On tree
- W- / 384 Moist bank *Poa*
- W- / 385 *Trisetum*
- W- / 386 *Tillandsia complanata* Benth. " ", cluster of basal leaves,
s_ikes axillary.
- W- / 387 On tree
- W- / 388 *Chusquea*
- 389 " trees and terrestrial orchid 3 outer petals olive-brown, lip
and 2 narrow petals greenish
yellow.

- 21390 *Amicia* Shrub; fls. orange-yellow.
- W-1 391 *Aphelandra* *superba* Lindau (Det. Leonard) " 6 ft.; fls. salmon.
- 392 *Isobroma grandiflora* Benth. Tree; fls. violet blue.
- 393 *Duranta Sprucei* Briq. *muticæ* L. F. Shrub; fls. white.
- 394 On tree *Phoradendron angustifolium* H. B. K. Eichl. Parasite. Det. E. P. Killip
- 395 Along road, probably planted, native? Tree
Escallonia pendula (R. & P.) Pers.
- W-1 396 *Monvillea diffusa* B. & R.
- W-1 397 Dry sandy slope *Bouteloua*
- W-1 398 " " *Aristida*
- W-1 399 " " *Bouteloua*
- W-1 400 " brushy hill *Trichloris*
- W-1 401 " " " *Eragrostis*
- W-1 402 " " " *Penicum*
- W-1 403 " " " *Chloris*
- W-1 404 Arroyo *Aristida*
- 405 *Libidibia corymbosa* (Benth.) Rose Tree; fls. yellow with brownish
eye.
- 406 Clay slope *Drymaria stellarioides* Willd.
- W-1 407 Dry hill *Eragrostis*
- W-1 408 " slope *Aristida*
- W-1 409 " " *Chloris*
- W-1 410 " hill *Eragrostis*
- 411 " " Shrub
- 412 On tree *Dodonaea viscosa* Jacq. *Tillandsia latifolia* var. *divaricata* (Benth.) Mez Det. L. B. Smith
Inflorescence red; fl. purplish.
- 413 *Escallonia floribunda* Shrub; fls. white.
- 414 *Roupala loxensis* Johnston " " " inside, pinkish
outside.

- 21415 *Croton pycnanthus* Benth. Shrub 3-4 ft.
- 416 *Bejaria parviflora* Benth. "
- 417 *Gaultheria reticulata* HBK. " 1-4 ft.; fls. white.
- W- 418 Dry hill *Sporobolus*
- W- 419 " slope *Aegopogon*
- W- 420 Moist slope *Panicum*
- 421 Grassy slope *Axonopus*
- 422 *Bejaria aestuans* Mutis, ver. Shrub; fls. crimson.
micrantha Dang. & Cherm.
- W- 423 ", prickly, fls. orange-red.
- W- 424 (cf preceding number)
- 425 *Araceae* Climbing 1-2 ft.; spathe greenish
white, spadix brownish.
- 426 On tree *Phoradendron* Parasite, yellowish green, berries
white.
- 427 *Gaultheria cordifolia* HBK. Shrub; fls. red.
- W- 428 *Lycopodium clavatum* L.
- 429 " " white.
- W- 430 Moist bank *Poa*
- 431 *Hypericum* Shrub; fls. yellow.
- 432 On tree *Orchid* Fls. pale yellow. (Is this
21389?)
- 433 *Selaginella*
- 434 *Peperomia Jamesonii* 1-2 ft.
- 435 *Weinmannia macrophylla* HBK. Shrub; fls. white.
- 436 *Axinaea floribunda* (Naud.) Triana " " pink.
- 437 *Satureja taxifolia* (Kunth) Briq. " 2-6 ft.; fls. orange red.

21438 Englerodoxa loranthiflora (Benth.) ~~Al. Cr. Sm.~~; fls. scarlet

439 Dry slope Cortaderia

Prov. Loja, between Loja and San Lucas. Sept. 6

21440 Fuchsia *hyPOLEUCA Johnston* Shrub 3-6 ft.; fls. scarlet.

21441 On tree Tillandsia Infl. 3 ft., red, fls. purple.

W- (442 *DomBEYA LAPPAGEA L'HER* " only; fls. red. (cf another number).

443 " " Tillandsia *rubra R. & P.* " 2 ft.

444 Grassy bank in open woods. *Ch. & Schdl.* Triniochloa

W- 445 Moist bank *Pilea thymifolia*

446 Siparuna umbelliflora Perk. Tree; fls. greenish.

447 Bank of river Juglans Honorei Dode"

448 On tree Orchid

449 Terrestrial Orchid Fls. green.

W- 450 *Monnina chandryensis Chab.* " blue.

W- 451 " orange.

452 Moist bank " yellow.

453 " " Liabum amplexans Blake ? " lilac.

W- 454 Brushy bank *Onoseris speciosa HBK.* Isachne

W- 455 Shady bank Poa

456 Tree; fls. green, rose-tinted.

W- 457 Rocky open place Agrostis

458 Saurauja tomentosa (HBK.) Spreng. Shrub or small tree; fls. white.

21459 *Prunus capuli* Cav.

Tree 30 ft. along road, may
be cult.

460 *Phrygilanthus punctatus* (R. & P.) Tree; fls. creamy white.
Cav.

W- 461 Dry slope *Epicampes*

W- 462 Moist bank *Poa*

W- 463 Dry slope *Sporobolus*

W- 464 *Paspalum*

W- 465 *Axonopus*

W- 466 *Agrostis*

467 Moist bank *Valeriana urticifolia* HBK. Herb; fls. white.

W- 468 *Bromus*

W- 469 Dry slope *Trachypogon*

470 *Passiflora sanguinolenta* Mast. Vine; fls. dull red.

471 *Phyllanthus salviaefolius* HBK. Shrub; fls. green & rose.

W- 472 Moist bank

W- 473 *Pitcairnia pungens* H.B.K. ~~st. L. B. Smith~~

474 *Abutilon sylvaticum* (Cav.) Schum. " 8 ft.; fls. white.

475 *Stevia andina* Robins. " "

W- 476 Open ground **FRAGARIA VESCA L.** " "

477 Grassy hillside *Pennisetum intectum* Chase

W- 478 Dry slope *Cortaderia* Large clumps.

SW- 479 Terrestrial Fls. green.

480 *Polygala paniculata leucoptera* Blake

- W-1 21481 Grassy slope Andropogon
W-1 482 " " Pennisetum
W-1 483 " " Axonopus
W-1 484 Eragrostis
485 Open clay slope Daucus montanus H. & B.
W-1 486 " " " Chaetochloa
W-1 487 " " " grass
W-1 488 Bromus
W-1 489 Andropogon
~~W-1~~ 490 Terrestrial orchid Fls. red, lip orange red.
W-1 491 Grassy slope Paspalum
492 Carduaceae Rays orange.
493 Along Agave hedge ~~Coursetia?~~ Fabaceae Fls. orange-red.
494 " " " " dull red.
W-1 495 " Passiflora sanguinolenta Mast.
" " " Paspalum
496 " " " 5 ft. straggling; fls. blue.
497 " Plumbago coerulea HBK.
" " " Shrubby vine; fls. lilac.
498 Along road & in fields Solanum 3-4 ft.; fls. white.
Solanum sisymbriifolium Lam.
499 3-5 ft.; fls. pale scarlet.
Salvia squalens HBK.

Prov. Loja, between San Lucas & Oña. Sept. 17

Mostly on the paramos.

- 21500 Moist slope Fls. white.
Tofieldia falcata (R. & P.) Pers.
501 Rich moist woods No trunk, frond 5 ft. base brown
Alsophila quadripinnata (L.) C.Chr.
woolly.
502 Rich woods Shrub; fls. white.
Distierigma Popenoei Blake
503 Moist bank
Lycopodium clavatum L.

- 21504 Moist slope *Lycopodium herbaceum* (Spring.) Hieron.
- W-1 505 *BOMAREA* ^{*purpurea* (R. & P.) Herb.} ~~SETACEA~~ Climbing high; fls. scarlet.
(R. & P.) HERB.
- W-1 506 *Cortaderia*
- 507 *Oxalis lotoides* HBK. Straggling or climbing, much branched; fls. yellow with brown veins.
- 508
- W-1 509 Wet woods *Rubus roseus* Poir.
- W-1 510 *Vaccinium crenatum* Don Fls. red.
- W-1 511 Terrestrial " green.
- 512 *Festuca*
- 513 *Saurauja tomentosa* (HBK.) Spreng. Small tree; fls. white.
- W-1 514 *Eupatorium atrescens* Robins. Shrub 8 ft.; fls. purple.
- W-1 515 Shady bank *Psilogramme elongata* (Hook. & Grev.) ~~Spreng~~ Kuhn
- 516 *Gaultheria tomentosa* HBK. Shrub 3-6 ft.; fls. pale purple.
- W-1 517 Brushy bank Large clumps.
- 518 *Struthiopteris Buchtienii* (Rosenst.) Max.
- 518 *Weinmannia fagaroides* HBK. Shrub or tree; fls. white.
- 518a *Weinmannia stenocarpa* K. & S. ~~MICROPHYLLA~~ **STENOCARPA**
- 519 Terrestrial orchid Fls yellow; lip & inside of outer petals brownish.
- W-1 520 Same as 21519? blades shorter
- W-1 521
- 522 *Carduaceae* Herb 10 ft.; fls. greenish yellow.
- W-1 523 Open ground *Stipa*
- W-1 524 Grassy paramo *Danthonia*
- 525 *Carduaceae* Shrub 10 ft.; fls. white.
- 526 Bank Low shrub
- Diplostephium empetrifolium* Blake

21527 *Satureja taxifolia* (Benth.) Briq. Shrub 3-6 ft., fls. yellow to pale red.

W-1 528 Bank Paspalum

529 *Siphocampylus divaricatus* Benth. Shrub 6-10 ft.; fls. scarlet to crimson.

W-1 530 Paramo Danthonia

W-1 531 " Poa

W-1 532 " Calamagrostis

W-1 533 " "

W-1 534 " Agrostis

W-1 535 " Calamagrostis

W-1 536 " Paspalum

537 " *Escallonia tortuosa* HBK. Tree, 20-40 ft.

538 " Shrub 4 ft.

539 *Eupatorium exsertovenosum pseudofastigiatum* (Hieron.) Robins. Fls. greenish-yellow.

540 *Halenia asclepiadea* (HBK.) Don Small shrub; fls. white.
Valeriana Hieronymi Graebn.

541 " " "

542 Paramo Fls. yellow-green.

543 *Lomatia obliqua* (R. & P.) R.Br. " white.
Valerianaceae

544 " *Vaccinium floribundum* HBK. Shrub 3-4 ft.

545 Damp woods Tall herb; fls. pale yellow.
Centropogon comosus Gl.

546 Paramo *Gaultheria reticulata* HBK. Shrub 4-8 ft.; fls. white.

- 21547 Paramo Gaultheria loxensis Benth. Shrub 2-5 ft.; fls. pink.
- 548 " Brachyotum confertum (Bonpl.) " 3-5 ft.; fls. dull red.
Triana
- 549 " Baccharis genistelloides (Lam.) " Pers. " " "
- 550 " Brachyotum Benthamianum Triana " " " "
- W-1 551 " Psilogramme n.sp.
- 552 Rynchospora macrochaeta Steud.?
- 553 Rich woods *calceolaria sagittata* Pennell [TYPE] Det. L. B. Smith
~~Egelia~~ 8-12 ft.; fls. canary yellow.
- 554 " " Carduaceae 10 ft.
- 555 " " Carduaceae " " fls. yellow.
- NW-11 556 Wet places Carex *foemida* Steud.
- 557 " " Poa
- 558 **CALIGNONIA SCADENS BENTH.** Shrub, 5 ft; fls. green, some
upper leaves white.
- 559 Open ground Fragaria vesca L. Fls. white.
- 560 **VIOLA ARGUTA HBK.** ^{Violaceae} 3 ft.; fls. scarlet.
- 561 Viburnum triphyllum Benth. Tree 30 ft.; fls. scarlet.
- 562 On tree Fls. blue.
Tillandsia complanata Benth.
- 563 Carduaceae Shrub 10 ft; fls. white.
- 564 Paramo Coreopsis venusta HBK. Rays yellow
- 565 Moist bank Polypodium moniliforme Lag.
- 566 Shrub 5 ft.
- 567 Paramo Vaccinium reflexum Hook.f.
- 568 " Terréstriel Orchid Fls. greenish-white.
- 569 Cacosmia rugosa HBK. Shrub
- 570 Gynoxys buxifolia (HBK.) Cass. " 8-10 ft.
- 571 On tree Tuft rea; fls. creamy white.
Tillandsia tetrantha R. & P. var. scarlatina (André) L.B.Sm.
- W-1 572 Bank, paramo Lycopodium complanatum L. var.

- 21589 *Chuquiragua argenta* (HBK.) Hieron. Much branched prickly shrub,
4-6 ft.; silvery white.
- W-1 590 Paramo *Stipa*
- W-1 591 *Eragrostis*
- 592 Dry ground Shrub 2-4 ft.; fls. yellow.
Hypericum Lindenii Keller
- W-1 593 Paramo *Agrostis*
- 594 " 2 ft. or less; fls. white
- 595 *Baccharis genistelloides* (Lam.) Pers. 1-2 ft.; fls. white.
- 596 *Muehlenbeckia tamnifolia* (HBK.) Meish. creeping pr spreading; fls.
white.
- 597 On tree *Tillandsia* Infl. 3 ft., red; large cluster
of basal leaves.
- 598 Paramo *Valeriana rigida* (Pers.) Fls. white.
- 599 " woody ravine R. & P. 4-5 ft.; fls. white.
Eupatorium pichinchense HBK.
- 600 " " " 5-6 ft. " yellow.
- 601 *Carduaceae*
" moist place Fls. yellow with brown veins.
Oxalis lotoides HBK
- W-1 602 " " " *Lolium*
- 603 *Fuchsia Hitchcockii Johnston* Shrub 3-5 ft.; fls. scarlet pen-
n. s p. dulous.
- 604 Paramo *Gentiana* Fls. yellow, lobes edged with
brown-orange.
- W-1 605 " *Nassella*
- 606 *Gesneraceae* Shrub 8 ft.; fls. dark blue.
- 607 " *Berberis conferta* HBK. " 3-6 ft. " orange-yellow.

- W-1 21608 *Mutisia alata* Hieron (ex char.) Clambering or vine like, much branched.
- 609 ~~Eabaceae~~ 2-3 ft.; fls. yellow.
CAICEOLARIA ERICOIDES Vahl. (Det. PENNELL)

- Paramo and woods just below Sept. 10
- 21610 Side of rocky cliff Fls. pink-purple.
Tillandisa incarnata Benth.
- W-1 611 Along Agave hedge Small tree; fls. white, pendulous.
- 612 *Passiflora glaberrima* (Juss.) Poir. Vine; fls. magenta, tube lilac-purple. (Observed same north of Quito, high altitudes above Malchingue)
- 613 Rich woods Terrestrial orchid Fls. yellow, spotted with brown, 3 narrow petals unspotted.
- 614 Scroph 3 ft.; fls. yellow.
- 615 *Eupatorium Pachanoi* Robins. Shrub 8 ft.; fls. white, clusters more or less pendulous.
- W-1 616 *Centropogon longifolius* Wimmer Shrub 6 ft.; fls. orange red.
- 617 *Buddleia incana* R. & P. Large shrub; fls. orange red.
- 618 *Desfontainea spinosa* R. & P. Shrub 6 ft.; fls. red, yellow-tipped.
- W-1 619 Open bank in woods. *Cortaderia*.
- 620 *Berberis rigida* Hieron. Shrub 3-6 ft. with few upright branches; fls. orange-red.
- 621 ***Buddleia JAMESONI* Benth.** Shrub with few branches; fls. white.
- W-1 622 *Clethra brevifolia* Benth. " 5 ft.

- 21623 *Macleania nitida* (HBK.) Hoer. Shrub or small tree 8-15 ft.;
fls. red-brown.
- 624 *Berberis conferta* HBK. " 6 ft. much branched and
implicate; fls. rose and white.
- GW-1 625 Moist bank
- W-1 626 Fls. blue.
- W-1 627 Paramo, among grass. *Polypodium monaliforme* Lag.
- W-1 628 Paramo Poa
- 629 Rich woods *Valeriana* 3-5 ft.; fls. white.
- W-1 630 Moist woods Poa
- W-1 631 " " *Agrostis*
- W-1 632 " " *Stipa*
- 633 *Valeriana hirtella* HBK. Shrub, 10-15 ft.; fls. white.
- G-1 634 " 8 ft.
- W-1 635 Paramo *Satureia nubigena* Spreading (Kunth.) Brig.
- 636 *Buddleia rugosa* HBK. Tree 40 ft.; fls. orange-red
(cf 21617)
- W-1 637 Paramo, bank. *Dicranopteris simplex* (Hook.) Max.
- 638 " among grass *Jamesonia*
- W-1 639 " Poa
- W-1 640 " " grass
- W-1 641 " Fls. yellow.
- W-1 642 " *Agrostis*
- W-1 643 *Calamagrostis*
- W-1 644 " terrestrial Fls. greenish.

21645 Parano, among grass Fls. yellow.

Liabum arthrothrix Plak

646 " scattered on grassy hills; as much as 12 ft. tall

Puya paniculata C. & S. *Puya mollis* Bak.

large cluster of leaves at base; fls. pale

greenish-blue. (Same as on Tulcan paramo among

freilijon)

W- 647 Paramo *Agrostis*

648 " Shrub, creeping as much as 15

Muehlenbeckia tamnifolia (HBK.) Meisn.

ft. over bare soil.

649 Paramo *Brachyotum Jamesonii* Triana Fls. nearly black.

650 " *Sisyrinchium* " yellow.

651 " *Lobeliaceae* " blue.

652 " *Calamagrostis*

W- 653 *Rhynchospora macrochaeta* Steud.

W- 654 " *Agrostis*

655 " *Gentiana saxifragoides* HBK. Fls. lavender-blue.

656 " *Erigeron crocifolius* (HBK.) Scattering; fls. white.
Wedd.

W- 657 " Terrestrial; fls. green.

658 " *Baccharis genistelloides* (same as 21595 probably)
(Lam.) Pers.

W- 659 "

Provinces Azuay and Canar, Cuenca to Huigra. Mostly through cultivated valleys; collections mostly from woods below paramo and on paramo.

Sept. 12

21660 Woods *Monnina lingua* Chod. (type) 6 ft. fls. dark blue.

661 Paramo *Carduaceae* Shrub 1-3 ft.; rays white.

21662 Paramo Baccharis microphylla HBK. Shrub 3 ft.; fls. whitish.

663 Woods Carduaceae " 8 ft. " white.

664 " Eupatorium pseudoriganoides " 6 ft.

Heiron.

665 " Carduaceae " " fls. pink-purple.

666 " Manettia recurva Sprague Vine; fls. pinkish.

667 " Fuchsia *apiculata* Shrub 4 ft.; fls. scarlet.

Johnston n. sp.

W-1 668 " 10-15 ft.; fls. pale yellow
Siphocampylus umbellatus (HBK.) G. Don
or greenish yellow.

669 " Abatia parviflora R. & P. Tree; fls. greenish yellow.

670 Weed at Biblián 3-4 ft. fls. white.

Solanum marginatum L.f.

Paramos & woods of upper slopes. Sept. 13.

21671 On tree Fls. pink.

Tillandsia complanata Benth.

672 " " Infl. 2 ft. unbranched, fls.
Bromel light purple.

673 Bomarea *isopetala* Kränzl. Climbing several feet, fls.
rose scarlet, green tipped.

W-1 674 Moist shady ravine.

Thalictrum podocarpum

675 Puya mollis Baker Fl. stem 4 ft; cluster of
leaves at base; fls.
bluish green.

676 Bromel On tree. Infl. 3 ft. dull
red; fls. lilac specimen
is one of about a dozen
spreading branches.

21677 *Axinaea macrophylla* (Naud.) Triana Tree, 40 ft.; fls. light lilac-purple.

678 *Cajophora aequatoriana* Urb. & Gilg Herb. vine, stinging, fls. vermilion.

679 *Bomarea porphyrophila* Kränzl. Climbing several feet; fls. dark scarlet.

680 *Bomarea* Climbing several feet; outer petals light vermilion, inner yellow with brown spots.

681 *Centropogon Hitchcockii* Gl. Simple stems, 4-6 ft., fls. scarlet to crimson.

W-1 682 Moist bank *Festuca*

683 *Vallea stipularis* Mutis Tree, 30 ft.; fls. rose-crimson.

W-1 684 Vine *Tropaeolum tuberosum* (R. & P.) Fls. red.

685 *Loasa calycina* Benth. ? 2-3 ft. stinging; fls. orange-red.

W-1 686 On tree *Peperomia subconcava* Trel.

W-1 687 " " *Tillandsia wangerini* Mez (Det. L. B. Smith) Inflorescence unbranched; fls. lilac, purple.

W-1 688 *Fuchsia* *loxensis* Hook (H. & A.) ~~*umbrosa* Benth.~~ Shrub 4-6 ft.; fls. scarlet.

W-1 689 Paramo *Calamagrostis*

NW-1 690 " *Cortaderia*

W-1 691 " *Agrostis*

692 " *Vicia* Fls. blue.

- 21693 Paramo Shrub 1-2 ft.; fls. red.
 Satureja Jamesonii (Benth.) Briq.
 694 " 1 ft.; fls. yellowish becoming
 Carduaceae purplish.
- 695 Berberis paniculata Juss. Shrub 3-5 ft.; fls. orange red.
- 696 Mikania chimborazensis Hieron. 4-6 ft.; fls. purplish.
- W-1 697 *Lavatera assurgentiflora* Tree 12 ft.; fls. rose with
 XELL. darker stripes (Cult. at
 Tambo).
- 698 Berberis multiflora Benth. Shrub or tree 8-15 ft.; fls.
 orange-yellow.
- W-1 699 Woods Bamboo, cane as much as 1 in.
 thick, 20 ft. tall; common
 in woods not in fl.
- W-1 700 Terrestrial; fls. yellow; tip
 pearly white in center & dark
 purple.
- 701 Rather dry hillside Shrub 3-4 ft. leafless; fls.
 Fuchsia orange-scarlet.
- 702 Cuscuta odorata R. & P. Calyx purple; corolla white.

Prov. Tungurahua, Ambato, along Ry. to Riobamba Sept. 21.

- 8 W-11 703 Dry hill Stem 1 ft.; fls. scarlet.
 Echeveria Sprucei (Baker)
 704 " slopes Chaetochloa Large bunches; common.
- 705 Dry slopes and cliffs- terrestrial; large tangled bunch,
 Tillandsia incarnata HBK.
 old stems 2-3 ft. long; fls. rose to dull scarlet.
- 706 Dry slope Coursetia dubia DC. Shrub 2-4 ft. straggling, much
 branched; fls. rose purple &
 whitish.

- 21707 Ry. cut *Melilotus indica* (L.) All. Fls. yellow.
- 708 Dry slope Low shrub; fls. blue.
Salvia collina Kunth
- W-1 709 " " *Stipa*
- W-1 710 *Paspalum* Weed in alfalfa field.
- 711 Ry. cut *Bromus*
- W-1 712 Along irrigation ditch
- W-1 713 Ry. cut *Andropogon*
- W-1 714 Along irrigat. ditch *Agropyron*
- 715 Sandy slope *Cenchrus*
- W-1 716 Ry. cut *Stipa*
- 717 Dry ground Shrub 1 ft.; fls. white.
Arcytophyllum thymifolium (R. & P.) Standl.
- 718 *Bromus* (21711 but smaller)
- W-1 719 Dry slope *Stipa*
- 720 " " *Dodonaea viscosa* Jacq. Shrub 3 ft. common.
- 721 Springy place Long runners from lower part of
Epilobium aequinoctiale Lam. stem; fls. purplish.
- 722 " " *Scirpus americanus* Pers.
- 723 " *Mimulus glabratus* Fls. yellow.
- 724 Sandy Ry. cut *Jussiaea diffusa* Forsk. *Eragrostis* Common on walls & open ground.
- 725 Springy place. *Celeri graveolens* (L.) Benth.
- 726 Moist ground near *Lantana rugulosa* H. B. K.
river Shrub 4-8 ft.; fls. purple
tinged with white.

21727 Moist ground near river Shrub 5-8 ft. disagreeable odor;
Cestrum steubelii
 Hieron. fls. greenish white.

W-1 728 Eragrostis (21724) common compact-panicled
 form.

729 Sandy Ry. cut Plantago psyllium L.

730 " " " Chenopodium *CARNULOSUM* Moq.

731 " " " Xanthium spinosum L.

732 " " " Chamaesyce hirta (L.) Millsp.

733 " " " Chamaesyce nutans (Lag.) Small

734 " slope ~~Carduaceae~~ *Parosela humifusa* (Benth.) Machr.

735 " soil *Parosela* Forms ashy thick mats, 2-3 ft.
 across; fls. blue.

736 " " Diplotaxis muralis micrantha O.E.Schultz

737 " " Verbena inflata HBK. Mats; fls. white.

738 " " Argemone mexicana L. Fls. yellow.

739 " " Verbena microphylla HBK Mats; fls. lilac.

740 " bank Tribulus cistoides L. "

741 " soil Sporobolus

W-1 742 Eragrostis Weed in garden.

743 Base of dry slope Carduaceae 3 ft.; fls. yellow.
 in ravine

W-1 744 *Fumaria officinalis* Weed in garden.

745 Dry ground Stipa

746 Clusia Tree 20 ft. wild plant growing
 in ground of Normal School;
 fls. white.

747 Dry slope Shrub 1-2 ft.
Artemisia Sodiroides Hieron.

W-1 21748 Sandy slope



Abundant, probably introduced.

Mesembrianthemum crystallinum

Prov. Tungurahua, Valley of Pastaza River, Banos to Cashurco,

8 hours east of Banos

Sept. 25

21749 Open slope

Paspalum

750

Fuchsia

GLABERRIMA

Shrub; fls. red.

Johnston

n. sp.

751 Open slopes

Ischaemum

Common

752

"

"

Axonopus

753 Saurauja aequatoriensis glabrata

Shrub or tree 15 ft.; fls. white.

754 Terrestrial, cliffs and rather dry banks. 3-5 ft. no bulb,

Busc.

Orchid

naked below; fls. lilac & dark lilac.

W-1

755

Ischaemum

756 Bushy moist bank

Isachne

W-1

757

Ischaemum

N-1

758 Grassy bank

Rhynchospora

759 Cliffs & dry grassy slopes, terrestrial, 2-4 ft. no bulb

Orchid

infl. often branching; fls. pink-purple.

760 Tessaria integrifolia R. & P.

Tree, 20 ft.; fls. lilac.

W-1

761 Grassy slope in moist place, Paspalum

W-1

762 Moist slopes

Pennisetum

Common

N-1

763

"

woods

Pteris coriacea Desv.

764

"

"

Dennstaedtia obtusifolia (Willd.) Moore ?

765

"

"

Pteris Kunzeana Ag.

766

"

"

Alsophila

767

"

"

Polypodium

21768 *Tropaeolum pubescens* HBK.

Herb. vine; fls. scarlet, green
tipped.

W-1 769 On prostrate log

Fls. salmon.

770 Gesneraceae

Shrub 5 ft.; flowers in glo-
bose masses with red bracts,
the fls. creamy yellow; mass
gelatinous.

771 Open gravelly banks *Arundinella*

772 *Turretia lappacea* (L'Her.) Willd. Vine; fl. rose-red.

773 Gesneraceae

2-3 ft.; fls. red-vermilion.

774 Moist woods *Canna*

Fls. orange-salmon.

W-1 775 " " *Lasiacis*

776 Cliffs *Solandra*

2-3 ft.; fls. white.

777 *Begonia parviflora* P. & E.

Herb. stout erect, 8 ft., simple;
fls. white; infl. large (3
specimens from one)

778 *Barnadesia*

Shrub; fls. light purple.

779 Moist woods

Fls. pink.

Pavonia nemoralis St. Hil.

780 *Anoda hastata* Cav.

2-3 ft. fls. purple.

781 *Fuchsia* **SCABRIVASCULA**
Benth.

5 ft.; fls. scarlet.

782 *Begonia*

(21777 probably)

783 Moist cliff *Begonia*

784 " bank *Monolena*

Fls. pink.

primulaeflora Hook. f.

785 Wet bank *Solanum*

5-8 ft.; fls. white.

786 Moist woods *Begonia*

On tree. **JAMESONIANA** A. DC.

787 Along trail in forest. 4-8 ft.; fls. white purple-tinged;

Solanum

fruit globose, 2 in. diam., yellow, densely hirsute

(very)

with prickling irritating hairs, used to flavor drinks.
Called Naranjilla (little orange); may be introduced,
found around houses and along roads.

W-1 21788 Wet woods *CAMPelia* ~~ZANONIA~~ Fls. white. (L.) H.B.K.

789 Acanth Shrub 1-2 ft.; fls. pale lilac.

790 Gesner Fls. red-vermilion

N-1 791 Along road *Cyperus hermaphroditus* (Jacq.) Standl.

792 Moist woods *Diplazium* Frond 3 ft.

793 *Liabum pallatangense* Hieron. Scarcely shrubby 6-12 ft.; fls. yellow.

~~Adenostemma~~
794 Along trail Fls. white.

Adenostemma Lavenia (L.) Ktze. " yellow.

Jaegeria hirta (Lag.) Less. 2-3 ft.; fls. white.

796 Banks and open ground *Klaprothia mentzelioides* HBK. Fls. light purple.

797 Clay slope in moist woods *Ipomoea* Herb. vine; fls. greenish white

798 Cucurbit

W-1 799 *Panicum*

800 Moist bank *Begonia glabra* Aubl.

801 " woods *Begonia* 5 ft.; fls. pale yellow, bracts dark red.

802 Wet woods *Bihai* Leaves 10 ft. blades 3 ft.; infl. terminal drooping; bracts scarlet; fls. pale yellow.

- 21803 Wet woods Shrub 8 ft.; fls. white.
Gonzalagunia flexuosa Standl.
W- 804 Terrestrial Fls. white.
W- 805 Shrub 10 ft.; fls. dark purple.
W- 806 Edge of woods *Lasiacis*
W- 807 Grassy bank *Axonopus*
W- 808 Edge of woods *Lasiacis*
W- 809 Grassy bank *Panicum*
W- 810 " " *Axonopus*
811 *Solanum* Shrub, 10 ft.; fls. lilac.
W- 812 " 3 ft.
W- 813 On tree Fls. creamy at base, white
above & on inside, lip
purple brown spotted or
lined.
814 Edge of woods *Eupatorium bullatissimum* Robins.
815 Open shrubby clay ground *Dioscorea coriacea* H. & B.
816 On tree *Pitcairnia* Bracts scarlet.
817 Open ground along trail *Hypericum* ^{*euphorbioides* St. Hil.} ~~*stellaroides* HBK.~~
818 Edge of woods *Mikania* Straggling weed, vinelike bran-
Hitchcockii Robinson ches; fls. white.
n. s. p.
819 *Vandellia diffusa* L. Mats on open ground.
Bulnesia impatiens Morton (type)
W- 820 Moist shady place

- 21821 Open ground 2-5 ft.; fls. white.
Tibouchina longifolia (Vahl) Baill.
W-1 822 Shrubby bank Pennisetum 5-8 ft.
823 Among shrubs Fls. white.
Rubus irticifolius Poir.
824 Miconia *SP.* Tree 15 ft.; fls white.
825 On old stump Pilea Hitchcockii Killip
826 Grassy bank Axonopus
827 Moist open ground Fls. light salmon.
Gynandropsis hispidula DC.
828 On log Polypodium
829 In woods Diplazium marginatum (L.) Diels
830 Edge of woods Ruellia Fls. magenta.
831 Along trail, Sida *rhombifolia guayanaefolia* Kl.
open ground Fls. white with purple eye.
832 Open ground by woods 2-4 ft.; fls. white.
Monochaetum lineatum (D. Don) Naud.
833 Acanthaceae Shrub 6-8 ft.; fls. yellow,
bracts dark red.
W-1 834 *Dichorisandra villosula* Mart *Det. E. P. Killip*
W-1 835 Moist woods 3 ft. blades purple at tip;
fls. yellow.
836 Hoffmannia ecuatoriana Standl. Shrub 6 ft.; fls. red, borne
on old wood.
837 Moist shady place Fls. salmon pink.
Gynandropsis brachycarpa DC.
838 Woods Pteris reticulata venosa Hieron.
W-1 839 On trees " dull red.

- NV-1 21840 Moist bank Fls. white.
Anthericum microcarpum Killip
 841 Moist rich bank " "
Gesneriaceae
 W-1 842 Grassy moist bank *Paspalum*
 843 Open bank 3-6 ft.; fls. yellow.
Liabum nigropilosum Hieron.
 844 Wet bank *Begonia*
 845 *Miconia* *S.P.* Shrub; fls. white.
 W-1 846 Woods "
 847 *Clidemia sessiliflora* (Naud.) Cogn. " 8-10 ft.; fls. white.
 848 *Boissarea pilosiflora* Standl. " fl. white.
 W-1 849 Wet woods " " yellow.
 850 " bank *Oxalis coarctata* Knuth Fls. yellow.
 851 *Mendozia Hitchcockii* Leonard Vine, fls. white.
 852 Wet shady bank Fls. vermilion.
 853 " " " *Echinolaena*
 854 *Gurania spinulosa* (P.P.G.) Cogn. *Det. H. S. Gentry* Vine; fls. salmon-vermilion
 855 Woods *Dryopteris*
 W-1 856 *Lasiacis*
 857 Moist open ground *Solanum* Fls. white.
 W-1 858 Shady bank *Ichnanthus*
 859 " " *Rhynchospora dussiana* Boeck.
Dichromena
 860 Moist " *Cucurbit* Vine; fls. greenish.
 861 On tree *Bromel* Fls. yellow.
Guzmania weberbaueri Mez
 862 Open moist bank *Panicum*
 W-1 863 *Lasiacis*
 N-1 864 Moist bank *Cyperus Luzulae* Rottb.
 865 " " *Rhynchospora polyphylla* Vahl (?)

21866 Moist shady bank Gesneraceae Fls. scarlet.

W-1 867 " ground Panicum

868 Miconia scutata Gl. Shrub; fls. white.

869 Moist ground Selaginella

870 Wet shady place Fls. vermilion.

W-1 871 " bank Ichnanthus

872 Open ground *pastazae Robins* " white.
Eupatorium ~~lloense Hieron.~~

873 Clibadium microcephalum Blake Shrub; fls. white.

874 *Centropogon* sp. Wet woods Fls. yellow.
(Reported as *Centropogon* by Robinson)

875 Mikania pastazae Robins. Vine; fls. white.

876 Eupatorium Hitchcockii Robins. 10 ft.; fls. pink.

W-1 877 *Solanum diffusum B. & P.* Fls. white.

878 Moist bank Ichnanthus

W-1 879 " shady ground Panicum

880 ~~Carduaceae~~ *Eupatorium nemorosum Klatt* 3-5 ft.; fls. white.

881 Along trail Fls. white.

Ichthyothere scandens Blake

882 Boehmeria elongata Blume 10 ft. fls. white.

883 Moist woods 15 ft.; fls. white.

Saurauja tomentosa (HBK.) Spreng.

SW-11 884 Shrub; fls. yellow.

885 Shady place Inflorescence red.

886 On log Peperomia stelocophila glabrata Trel.

W-1 887 Wet woods *Spathiphyllum sodiroianum Engl.*

888 *Solanum lepidotum H. B.* Fls. yellowish white.

W-1 889 Moist bank

g-1 890 Shrub 10 ft.; fls. white.

891 Open ground Eucharis Fls. white.

- 21892 Moist ground *Hydrocotyle* Creeping; fls. green.
 NW-11 893 " bank
 894 *Lasiacis*
 895 Open ground *Chloris*
 W-1 896 On tree Fls. yellow with brown spots,
 lip yellow.
 897 Moist bank *Selaginella*
 898 *Liabum hastifolium* P. & E. 8-12 ft.

Prov. Tungurahua, Banos Sept. 26

- N 21899 *Cyperus phaeocephalus* Griseb.
 900 On adobe wall *Stipa*
 901 " " " *Eragrostis*
 902 " " " *Chaetochloa*
 W-1 903 " " " *Eragrostis*
 W-1 904 " " " Fls. greenish white.
 905 " " " *Malvastrum peruvianum* (L.) Gray
 906 Dry hills (between Banos and
 Ambato) *Tillandsia arpocalyx* André
 " yellow-green.
 SW-11 907 Dry bank " rose.
 W-1 908 Grassy hill *Axonopus*
 W-1 909 " " *Poa*
 W-1 910 Dry hills *Sisymbrium* " scarlet.
hispidulum
 911 Grassy hill *Andropogon* a few inches to 1 ft. or slightly
 more.
 912 " " *Paspalum*
 W-1 913 " " *Stipa*

- 21914 Grassy hill Eragrostis
- W- / 915 " " Andropogon
- W- / 916 " " Oplismenus
- W- / 917 Dry hill on
rocks
- 918 Rock cliff Cheilanthes myriophylla Desv.
- 919 Rocky hill Andropogon
- 920 Stone wall Stipa inconspicua Presl
- 921 Rocky cliff Muhlenbergia
- W- / 922 " " Aegopogon
- W- / 923 " " Festuca
- 924 " " Notholaena bonariensis (Willd.) C. Chr.
- 925 " hill Lupinus 2-4 ft. shrubby; fls. blue &
violet. *L. ambatiensis* C. P. Smith.
(det. C. P. Smith)
- 926 Grassy hill Festuca
- 927 Dry hill Shrub 2-6 ft.
Croton pycnanthus Benth.
- 928 Along roads & fences probably planted. Tree 15-25 ft.
- 929 " fences (planted?) near Ambato
- 930 Among century plants near Ambato Vine.
Cynanchum quitense K. Schum.
-
- Prov. Pichincha. Quito Oct. 1.
- W- / 931 Open ground along street. Eragrostis
- W- / 932 " " " " "
- SW- / 933 Given by Mr. Soderstrom from his garden; 2 petals bistre;
2 yellow, lip purple & white.

- W-1 21934 Same Petals yellow with brown spots.
- W-1 935 " The large petal yellow with brown spots.
- 936 " Orchid Fls. yellow & brown.
- NW-1 937 " Orchid Petals nearly black, lip white.

Prov. Chimborazo, between Urbina & Mt. Chimborazo Oct. 4.

- 21938- 4240 M Fls. yellowish-orange, tinged
Gentiana cernua HBK. and veined with red.
- W-1 939 4240 M Fls. light rose.
Geranium acaule Willd.
- W-1 940 3780 M " yellow.
- W-1 941 3780 M " "
- 942 " Valeriana rigida (Pers.) R&P. white, dense head level
with ground.
- W-1 943 " **PLANTAGO CUMINGIANA** **F. + M.**
- 944 Festuca Very common 3700-3900 M
- W-1 945 " **PLANTAGO LINEARIS** **H.B.K.**
- 946 " Bidens humilis HBK.
- 947 " Ranunculus peruvianus Pers.
- W-1 948 " Poa
- 949 " Calamagrostis Common 3700-3900 M
- W-1 950 " "
- W-1 951 " Festuca "
- 952 " ~~Senecio~~ **involucratus (H.B.K.) DC.**
Along irrigation ditch Fls. creamy white.
- 953 " Carduaceae " " " yellow.
- 954 4390 M Culcitium reflexum H. & B. "

21955	4390 M	Calamagrostis	
W-1 956	4545 M	Poa	
957	4390 M		
W-4 958	4545 M	Bromus	
959	"		Large cushions; fls. green.
		Azorella pedunculata (Spreng.) Wedd.	
W-1 960	"	<i>Lysipoma montioides</i>	H.B.K.
961	"		
962	"	Lupinus	Fls. dark blue.
963	"	Werneria humilis HBK.	Forms large cushions.
964	"	Lycopodium	Plant salmon-red.
965	"	Cerastium floccosum Benth.	Upper limit of vegetation.
966	"	Culcitium rufescens H. & B.	Freilejón, heads in infl. 1, sometimes 2, rarely 3.
967	"	Poa	Culms mostly single.
968	"	Calamagrostis?	
W-1 969	"	Culcitium nivale H. & B.	
W-1 970	"	<i>Culcitium ferrugineum</i>	
971	"	Jamesonia brunnea Maxon	
972	"	Hypochaeris setosa (Wedd.)	Forms small cushions.
973	"	Loricaria thuyoides (Lam.)	Aspect of conifer.
974	"	Sanchezia maxoniana Baccharis cespitosa (R&P) Pers.	Sch. Bip. Fls. white.
975	"	Gentiana prostrata Haenke	" blue.
976	"	Eudema Eemyana (Wedd.)	Forms cushions, fls. greenish
		O.E. Schulz	
976 1/2	"	Lupinus foliolosus Benth.	white. (det. C.P. Smith)
977	"	Alsinaceae	Small cushions " white.
978	4240 M	Festuca	Bunchgrass, common.

- 21979 4240 M Bromus Aspect of *B. porteri*, culms
mostly single.
- 980 " Calamagrostis Bunchgrass common from 3000-
4400 M.
- W-1 981 " Agrostis
- 982 " "
- 983 " Denthonia Bunches 1 ft. diam. radiating
only seen in one locality.
- 984 " Poa Culms mostly single.
- 985 " Calamagrostis
- 986 " Poa Bunchgrass common.
- 987 " *Satureja nubigena* (Kunth) Mats; fls. lilac.
Briq.
- 988 " *Geranium acaule* Willd.
- W-1 989 " **STELLARIA CUSPIDATA** Fls. white. **WILLD.**
- 990 " *Cerastium glutinosum* HBK. " "
- 991 4090 M *Gentiana foliosa* HBK. " lilac-mauve.
- 992 " *Ranunculus peruvianus* Pers. " yellow.
- 993 " Agrostis
- W-1 994 " Festuca Bunchgrass.
- 995 " Carduaceae Small tufts, level surface;
fls. yellow.
- 996 " *Cerastium glutinosum* HBK.
- 997 " *Erigeron pellitus* (HBK.) Rays lilac to nearly white.
Wedd.

- 21998 *Gentiana cernua* HBK. Fls. lilac.
- 999 Agrostis
- 22000 *Carduaceae* Mats.
- 001 *Carduaceae* Small cushions (appears to be mixture).
- 002 " Rather common.
- 003 By irrigation
- ditch 3940 M *Bromus* (21979)
- 004 " " *Poa* Bunchgrass common.
-

Prov. Chimborazo, Urbina, paramo on east flank of Mt.
Chimborazo, collections along Ry. Oct. 5.
on banks of cuts or ditches.

- W- / 22005
- 006 Patch along bank. *Ancistrum argenteum* (R&P) Poir.
- 007 Side of cut Agrostis
- W- / 008 *Eryngium humile* Cav.
- W- / 009 Fls. yellow.
- 010 *Castilleja fissifolia* L. " scarlet.
- W- / 011 *Poa*
- 012 *Umbelliferae*
- 013 *Gnaphalium*
- 014 Agrostis (cf 21999)

- W- (22015 Agrostis
- 016 "
- W- 017 Poa
- 018 Along cut Stipa Bunches
- 019 Trisetum?
- 020 "
- 021 Azorella ^{multifida var. glabra mathias (type) (not a pedunculata)} ~~pedunculata~~ (Spreng.) Willd. Large bunches or cushions.
- 022 Muehlenbeckia vulcanica Endl. Hanging in masses from top of hill.
- 023 Lachemilla orbiculata (R&P.) Rydb. Hanging in cushions on level ground. Common.
- 024 Geranium chimborazense Knuth
- 025 Geranium acaule Willd. Fls. white or pink.
- 026 Festuca
- 027 Trifolium amabile HBK. " " " " tinged.
- W- 028 "
- W- 029 Trisetum
- 030 Festuca Bunch grass common.
- 031 Stellaria cuspidata Willd.
- 032 Arenaria serpens HBK. Mats, roots deep.
- 033 Lepidium bipinnatifidum Desv.
- 034 Plantago linearis HBK.
- 035 Along cut Azorella biloba Wedd. On level ground forms cushions or mats.
- 036 Carduaceae
- W- / 037

- W-1 22038 *Castilleja nubigena* HBK.
- 039 Open ground *Spargularia spruceana* Rosbach (Det. Rosbach)
Asteraceae Prostrate with deep tap root.
- 040 " " *Sagina quitensis* HBK. Annual prostrate.
- 041 " " *Oxalis* Mats.
- W-1 042 *Stachys repens* Miq. Fls. rose with purple spots.
- 043 *Aphanactis Jamesoniana* Wedd. Mats.
- 044 *Lupinus* " perennial; fls. purplish.
- 045 *Agrostis*
- 046 Open ground *Alsine cuspidata* (Willd.)
- 047 *Carduaceae* "
- 048 Edge of cut *Bidens humilis* HBK. Hanging.
- 049 *Vicia graminea* Smith Fls. blue-purple.
- 050 *Werneria nubigena* HBK. Heads level with surface; fls.
white; leaves 2-ranked, often,
especially in sterile plants,
lying sidewise on the ground.